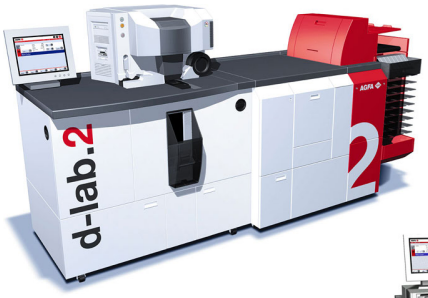
AGFAPHOTO

Operation Manual

Digital Minilabs



d-lab.2:
8060/260,
8060/803, 8060/804,
8060/270, 8060/272,
8060/157 + 8060/255

d-lab.2plus:
8060/261
8060/813, 8060/814
8060/271, 8060/273
8060/158 + 8060/255

netlab.2plus:
8060/505

Installation

Order number	**DD+18060252D0**
Edition	**2005-05-01**
Version	**English, 05034_00**

Modification History

Version	Edition	Modifications
05034_00	2005_05_01	Combination of the Operation Manual – Installation for the machines d-lab.2, d-lab.2plus, and netlab.2plus

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1 Introduction

1.1 Available Documentation

The complete Operation and Service Manual comprises of several documents (see ⇨ table below).

The customer receives the “Preinstallation” instructions when the machine is ordered.

The Operation Manuals “Installation” and “Operation” are included with the machine shipment. The “Operation” folder includes a CD with the complete Operation Manual (except circuit diagrams).

All other sections of the Operation and Service Manual can be ordered from AgfaPhoto.

The Operation Manuals “Installation” and “Operation” must be kept around the machine to ensure that all users have access to these instructions.

Operation Manuals	Owner	Photo-Assistant	Technician
Operation		●	
Installation	●		●

Service Manuals	Owner	Photo-Assistant	Technician
Repair			●
Parts List	●		●
Circuit Diagrams			●
Preinstallation	●		

The Operation Manual Installation applies to the following machines:

Machines with gas laser:

d-lab.2	type 8060/260
d-lab.2plus	type 8060/261

Machines with solid state laser:

d-lab.2 select	type 8060/803 and type 8060/804
d-lab.2 basic	type 8060/270 and type 8060/272
d-lab.2 (70mm)	type 8060/157 + 8060/255
d-lab.2plus select	type 8060/813 and type 8060/814
d-lab.2plus basic	type 8060/271 and type 8060/273
d-lab.2plus (70mm)	type 8060/158 + 8060/255
netlab.2plus basic	type 8060/505

1.2 Guideline for the User

Operation / Service Manual	Information
Preinstallation	The owner takes care of the listed preinstallation measures and returns the checklist to AgfaPhoto no later than two weeks prior to the installation date.
Installation	The machine is delivered by a forwarding company. This "Installation" section of the Operation Manual describes the transport to the installation site, as well as the installation and implementation of the machine. The machine is installed by an AgfaPhoto authorized technician and put in operation.
Operation	The "Operation" section of the Operation Manual includes all important information required to ensure operation by a photo-assistant: Chapter 1: Notes on the Operation Manual, legal notes, safety notes, transport and storage. Chapter 2: Introduction of the components, functions and controls of the machine, help function and information. Chapter 3: Description of the mixing process for chemicals. Chapter 4: Prior to production the Minilab must be set up to meet the requirements of the laboratory (machine settings) and the order handling (print configurations). Chapter 5: Description of the tests, which ensure the production quality. Chapter 6: Step by step description of the order handling. Chapter 7: Description of possible problems, which may be solved by the customer. Chapter 8: Description of the required maintenance routines on the machine. Chapter 9: Listing of the technical specifications of the Minilab. Chapter 10: Description of measures for environmental protection and the disposal of the machine. Chapter 11: Description of measures for closing down a machine. Chapter 12: Explanation of the abbreviations and special terms used in these instructions. Chapter 13: Key Word Index Chapter 14: Appendix

1.3 Conventions

1.3.1 Pictographs

The icons, keywords, and set off text passages in the instructions have the following meaning:

- Operating steps

Note

Indicates additional information on the respective subject or the possibility of operating errors.

CAUTION!

This indicates a potential danger which may result in medium or minor personal injuries or property damage.

WARNING!

Indicates a possible risk involved with a product which in case of non-observance may result in severe personal injuries or even death.

Special tools

1.3.2 Text styles

The following text passages are emphasized by **bold print** / *italic print* in this manual:

1. Screen designations
   Example: Pressing **OK** will validate the displayed text and close the **dialog window**.
2. Button designations
   Example: Press the **Reorder** button to edit reorders.
3. *Italic print* is used for reference to chapters or paragraphs.
   Example: See ⇨ paragraphs *Menu Overview* and *Screen Structure* on the following pages.

2 Transporting the Machine

2.1 Principal Information

The Minilab always consists of two system components, the Printer and the Paper Processor. The components are separately packed for transport to the customer.

The Minilab components may be transported by a fork lift or low lift platform truck either still packed or unpacked. The unpacked components have castors. By means of these castors the components can be transported for a short distance and on even floors to the installation site.

2.2 Weight of the System Components

Machine	d-lab.2		d-lab.2plus		netlab.2plus	
Component	Weight packed	Weight unpacked	Weight packed	Weight unpacked	Weight packed	Weight unpacked
Printer	614 kg	489 kg	637 kg	512 kg	540 kg	430 kg
Paper Processor	544 kg	410 kg	544 kg	410 kg	540 kg	430 kg
Accessories	approx. 50 kg	approx. 30 kg	approx. 50 kg	approx. 30 kg	approx. 50 kg	approx. 30 kg

2.3 Directives for Transport of the Machine Components to Other Floors (Vertical Transport)

2.3.1 Auxiliary Equipment

The parts bearing load of the Minilab components are the bottom plates of the frame. No load or only slight load may be applied to the side panels and the Main Computer on the Printer components and the outlet unit on the Paper Processor. Therefore the transport concept is as follows:

Alternative 1
Vertical transport with load spreaders and lifting slings

- Load spreaders in H-shape with four universally adjustable load suspension points 2000x1000 (according to DIN 15401 or similar).
- Two lifting slings 30x13, approx. 4 m long for unpacked machines and approx. 6 m long for packed components (according to DIN EN 1492-1 or similar).
- Various carrying straps

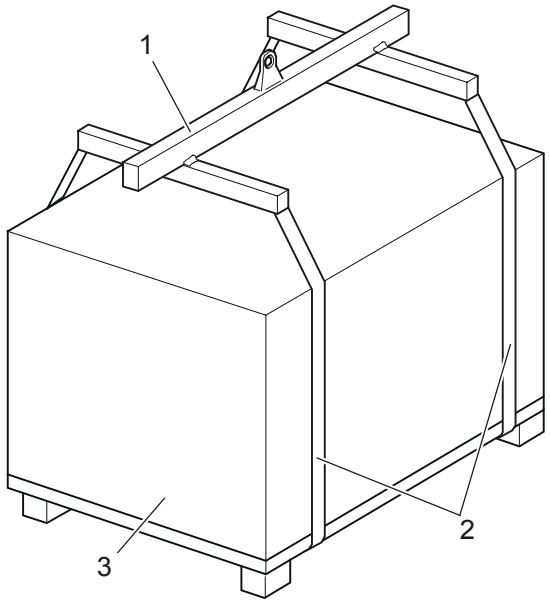
Alternative 2

- Lifting fork with manual center of gravity compensation (DIN15401 or similar)

Note
The respective load suspension devices are available in specialized forwarding companies.

2.3.2 Transporting Packed Components

We recommend to transport the packed components since the packing material protects sensitive parts. The drawings show the arrangement of the load suspension devices:



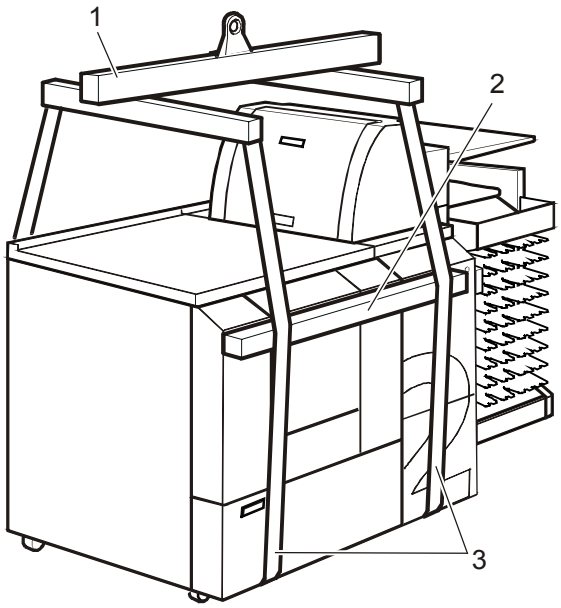
dlab2609

1 Load spreader
2 Lifting sling
3 Printer component, packed

- The lifting slings are positioned against the inner edge of the outer pallet feet. They should clamp the box slightly at the upper side.
- Straps around the upper and lower part of the box ensure that the box cannot slip out of the lifting slings (straps not shown).
- In case of pallets without feet but with skids, i.e. wooden bars, the lifting slings should be inserted in the recesses of the wooden bars.

2.3.3 Transporting Unpacked Components

- Dismount the following parts of the Printer prior to transport:
  - Table top (already removed in case of a new installation)
  - Cover of the sheet transfer = ST
  - Left and right magazine section doors



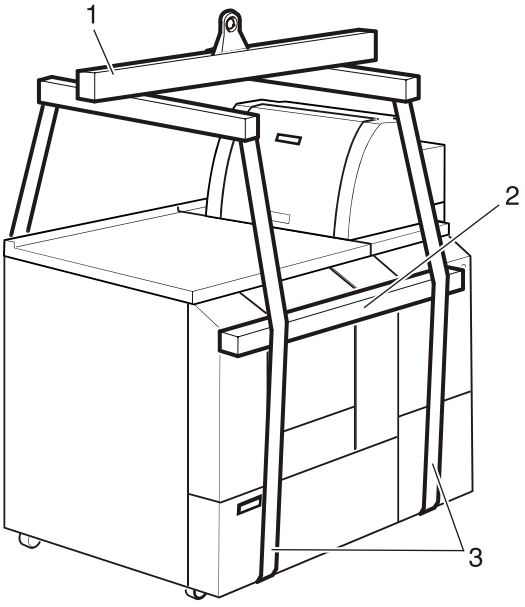
dlab2610 (Fig. shows d-lab.2)

Paper Processor:

1 Load spreader
2 Spacer bar, both sides
3 Lifting sling

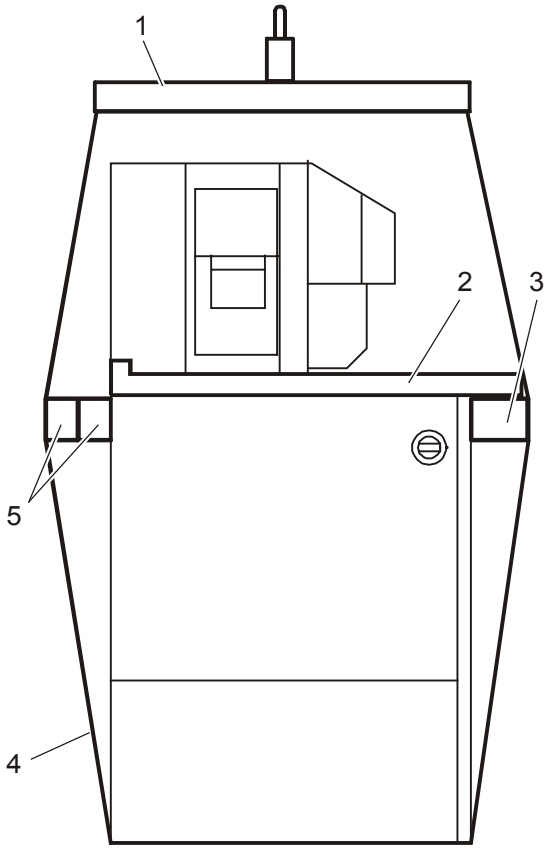
Transport the unpacked components as shown in the figure:

- Position the lifting slings, left and right, around the housing between the foot screw and guide castor.
- Protect the upper components by a cushioned spacer part on both sides, front and back, of the machine. Suitable are here the felt covered support bars of the Printer box.

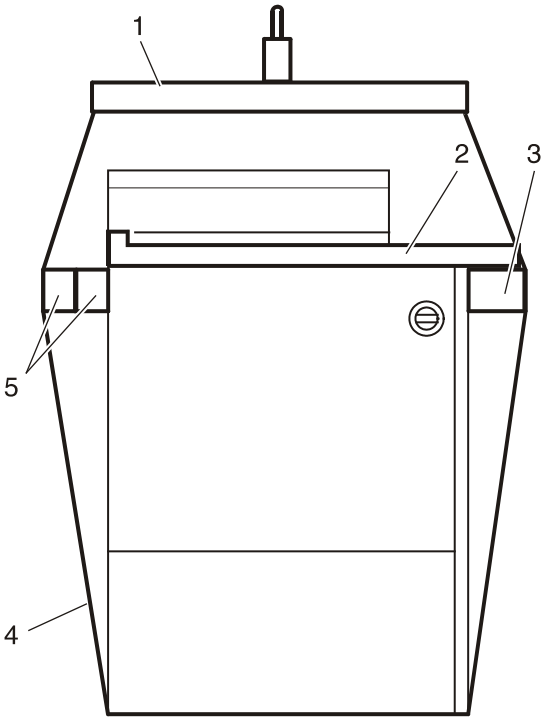


0247_005 (Fig. shows netlab.2plus)

- Two bars are to be placed in the back of the machine. Adjust the load spreaders in such a way that the lifting slings fix the inserted bars and still leave enough space between the lifting slings and the machine parts on top.



dlab2607 (Fig. shows d-lab.2)



0247_006 (Fig. shows netlab.2plus)

Printer:

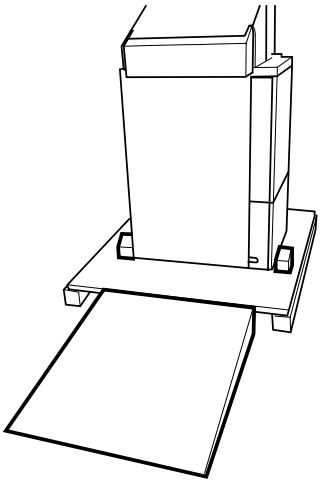
1 Load spreader
2 Table top dismounted
3 Spacer bar from packing box
4 Lifting sling: 2 x 4 m
5 Spacer bar or similar device: 2 x at least 120 mm high

3 Unpacking the Machine

The Printer and the Paper Processor are delivered separately and are joined during installation.

3.1 Pushing the Machines off the Pallet

Proceed with the following steps, one by one, for Printer and Paper Processor (see ⇨ illustrations on the following pages):



dlabr193

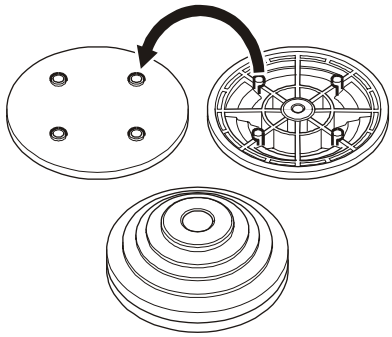
- Open the boxes and remove the packing material.
- Place the ramp supplied with the Printer on the front side of the pallet.
- Remove the holding brackets on the right and left side of the machine with a fork or socket wrench size 16.
- Mount the adjusting feet and/or stands (see ⇨ *Mounting adjusting feet and stands* on the following page) and unscrew them until they support the machine and the pallet crossbars are free.
- Pull out the pallet crossbars (they are not fixed to the pallet).
- Turn up the adjusting feet until the machine is standing on its castors.
- Push the machine on the ramp and off the pallet.
- Push the machine to the installation site.

3.2 Mounting Adjusting Feet and Stands

Special tools

A fork wrench size 16 mm (Paper Processor) and another one size 24 mm (Printer) are needed to adjust the height of the machine.

Before lowering the adjusting feet press the enclosed rubber inserts or discs into the stands:

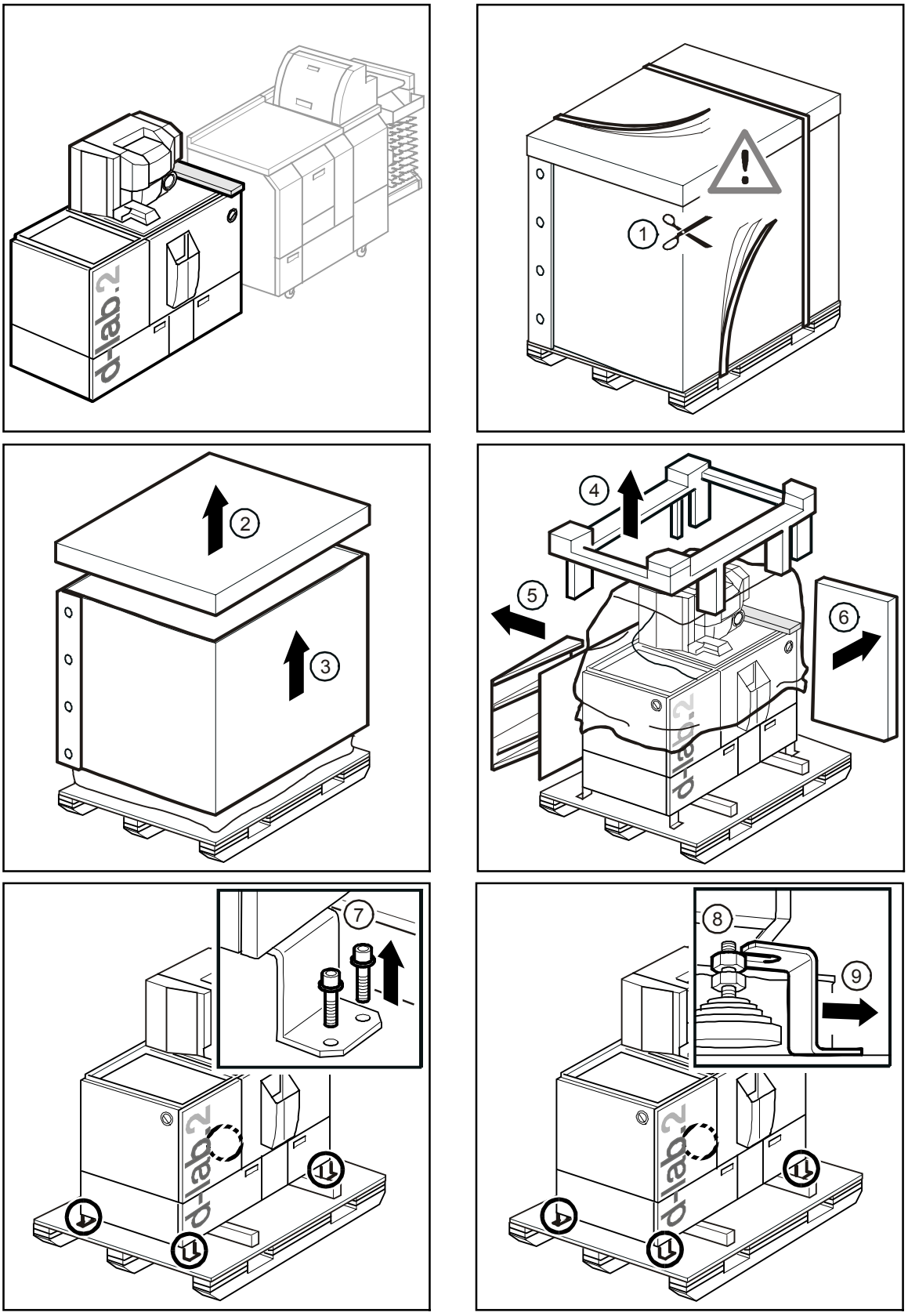


dlabr092

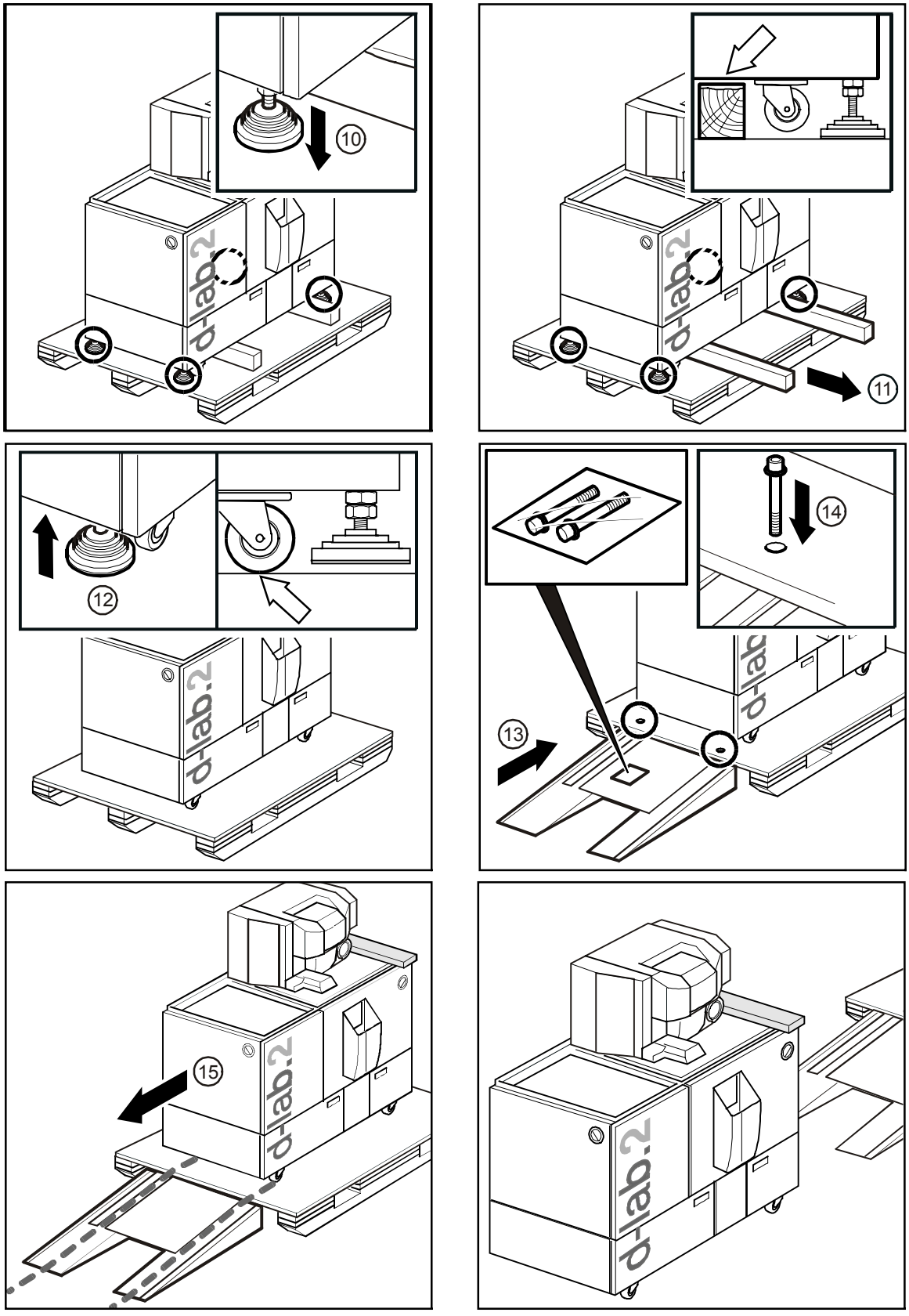
- Printer:
  In case the stands are not mounted yet to the adjusting feet: Position the stands under the adjusting feet, unscrew the feet until the ball joints are in the stands.
- Paper Processor:
  Press the discs into the stands. Then position the stands below the adjusting screws for the adjustment of the Paper Processor height.

3.3 Printer

Applies to d-lab.2/2plus

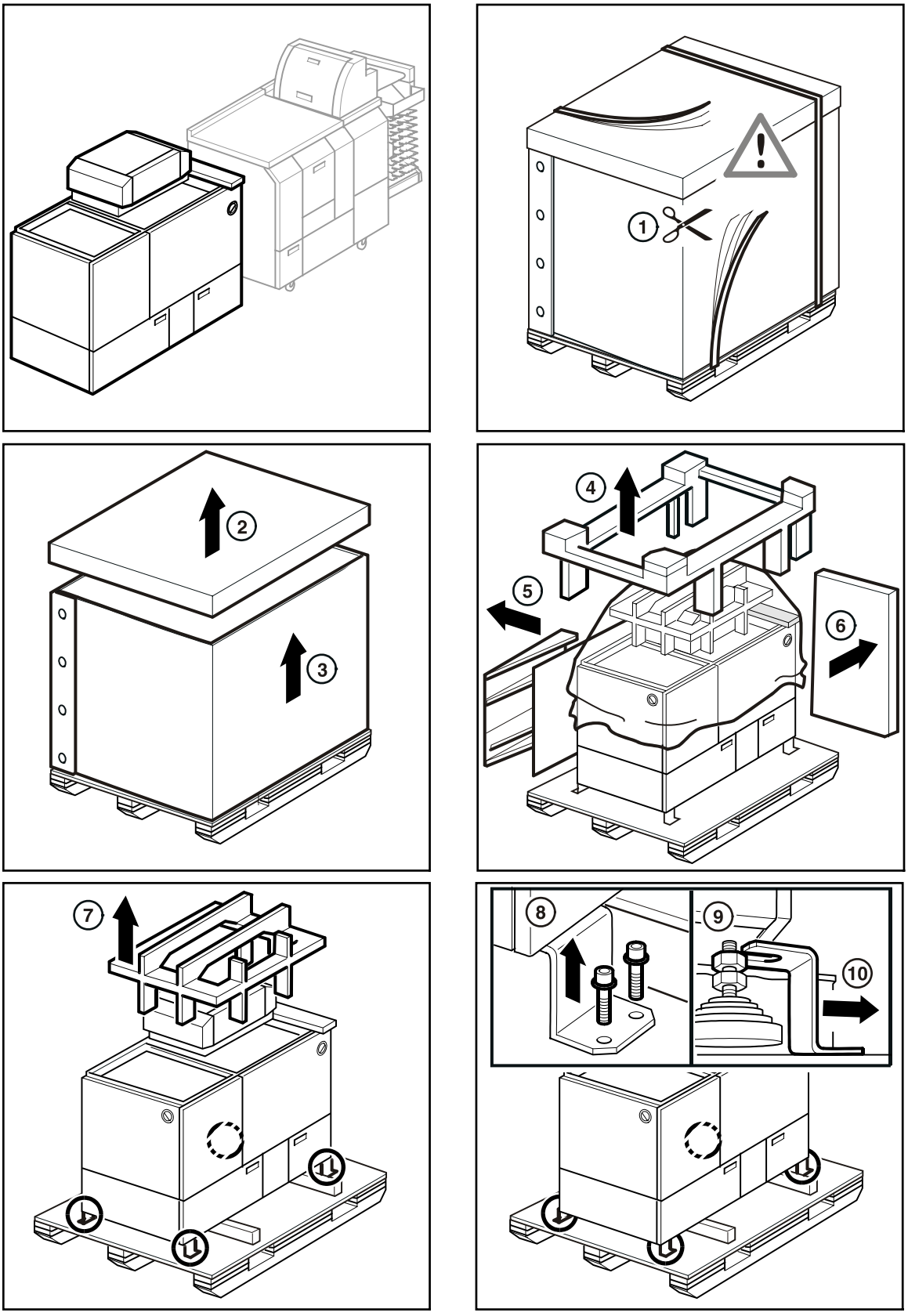


dlab2637 (Fig. shows d-lab.2)



dlab2638 (Fig. shows d-lab.2)

Applies to netlab.2plus



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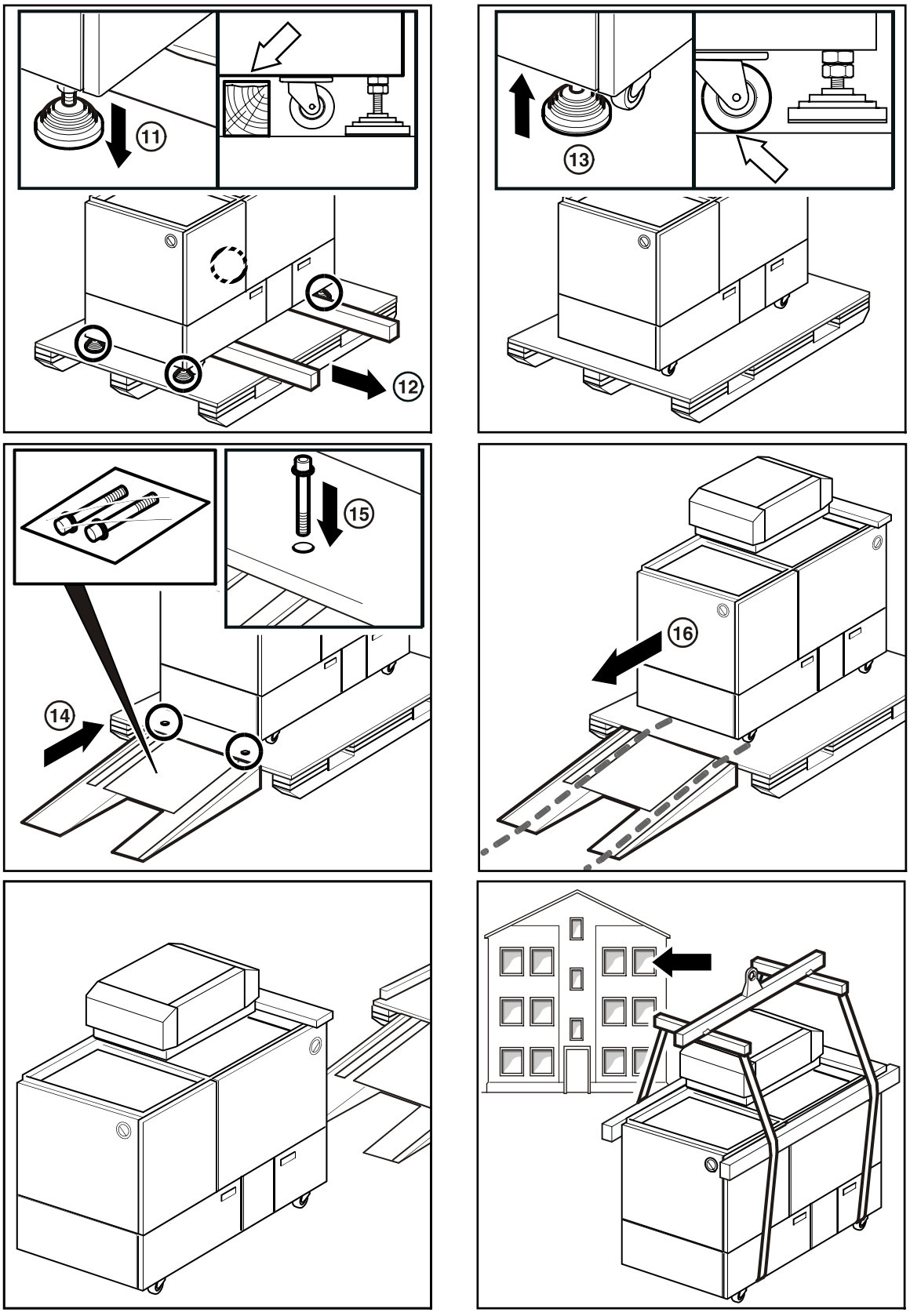
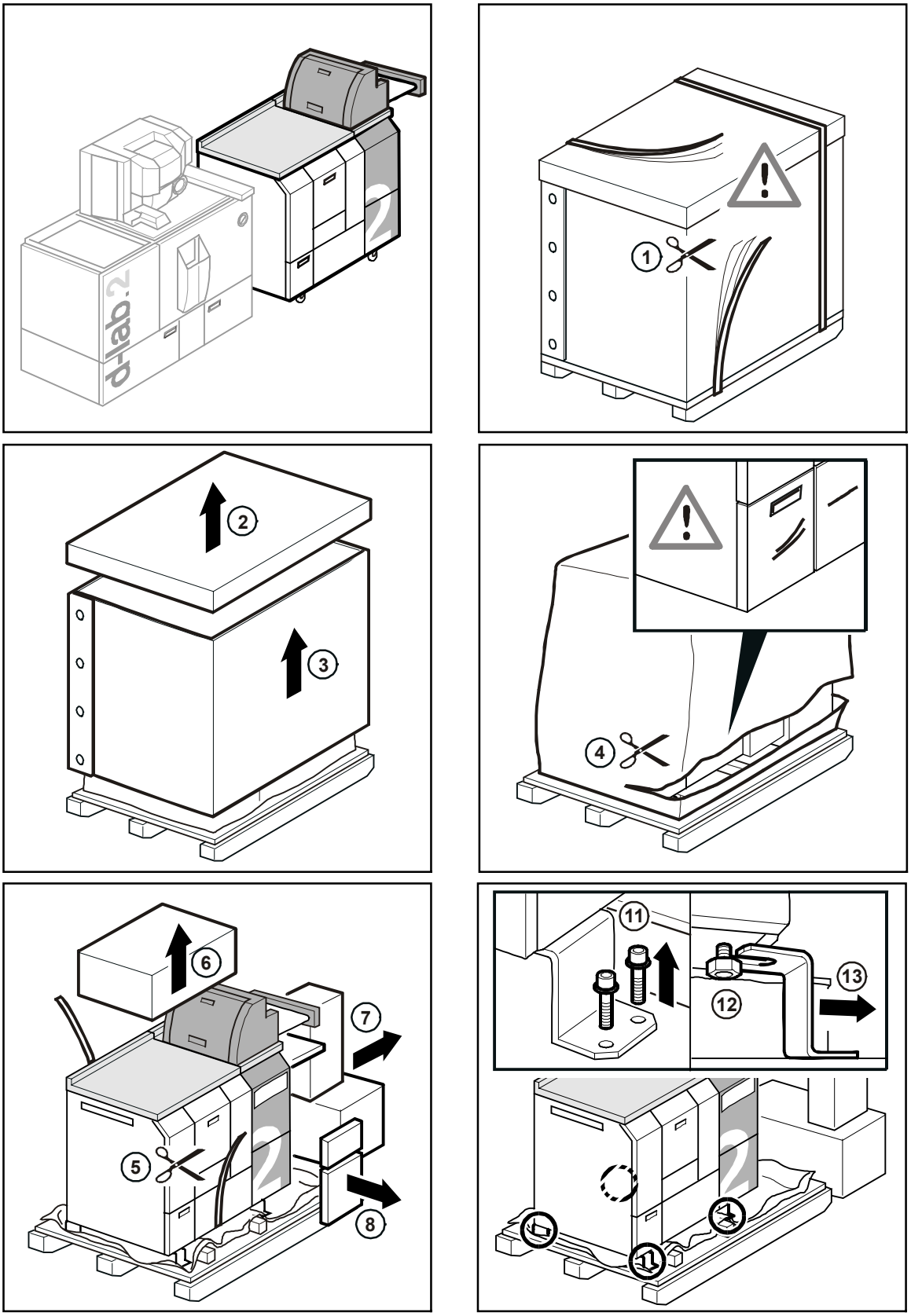


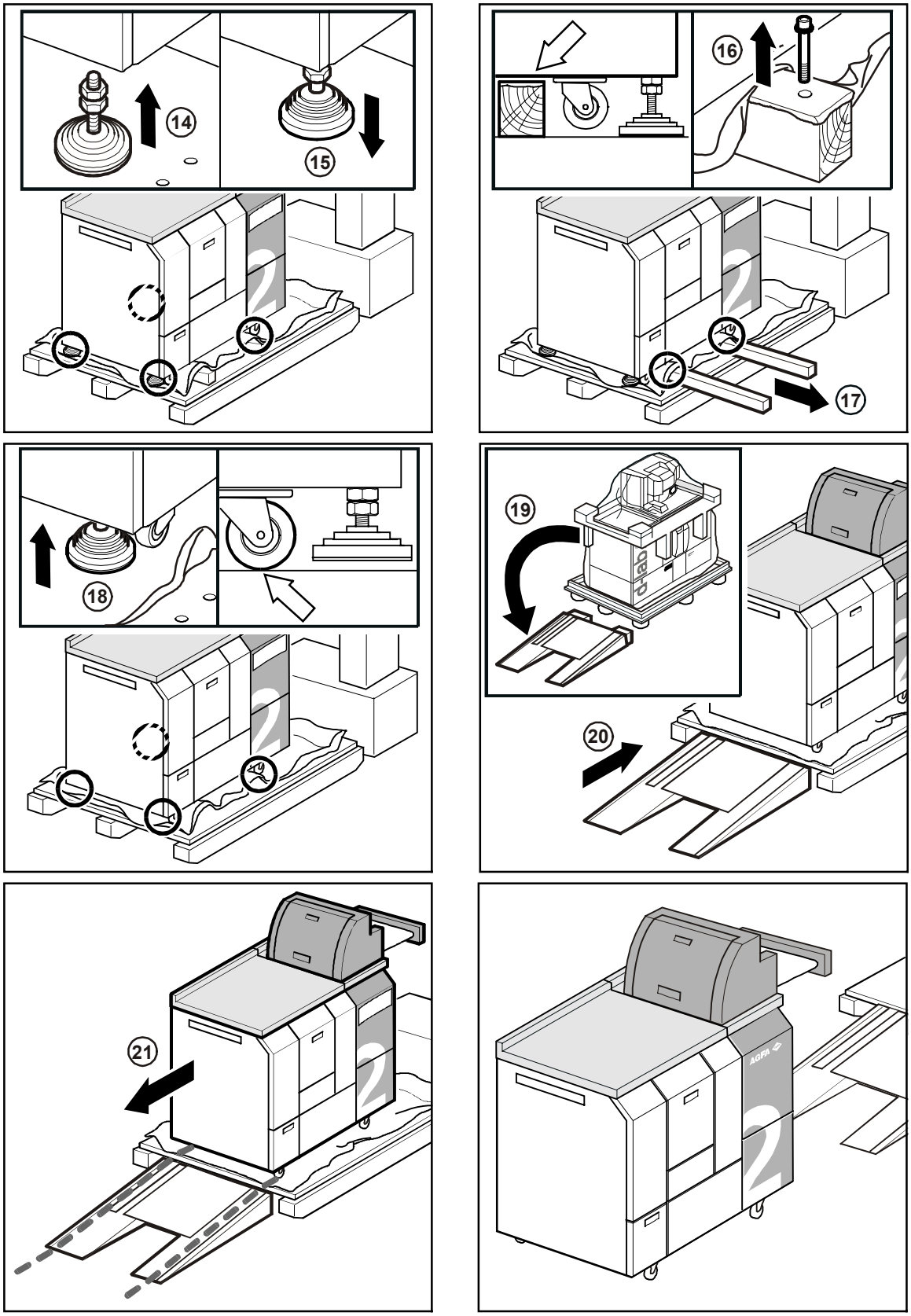
0247_028

Paper Processor

Applies to d-lab.2/2plus

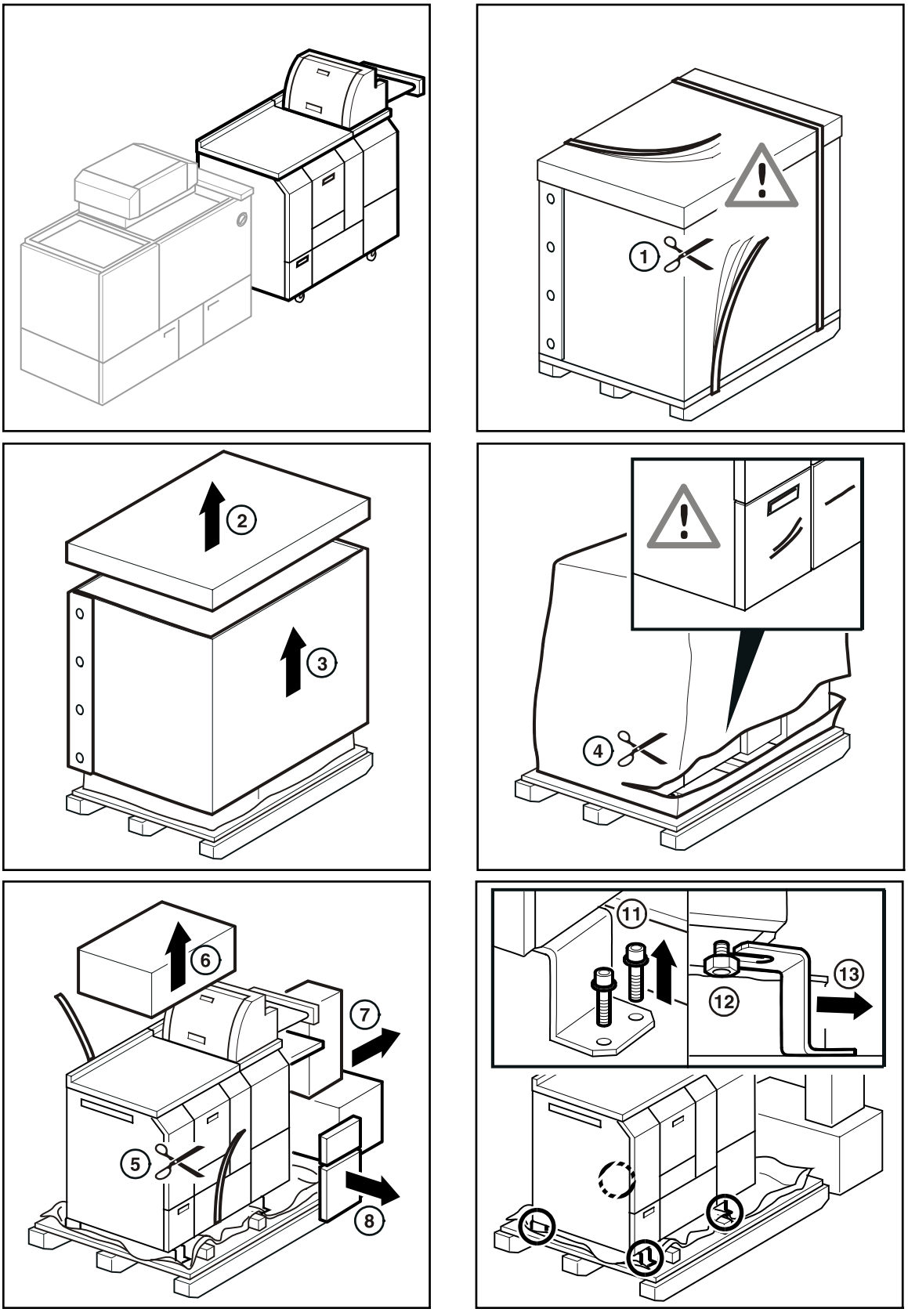


dlab2617 (Fig. shows d-lab.2)



dlab2618 (Fig. shows d-lab.2)

Applies to netlab.2plus



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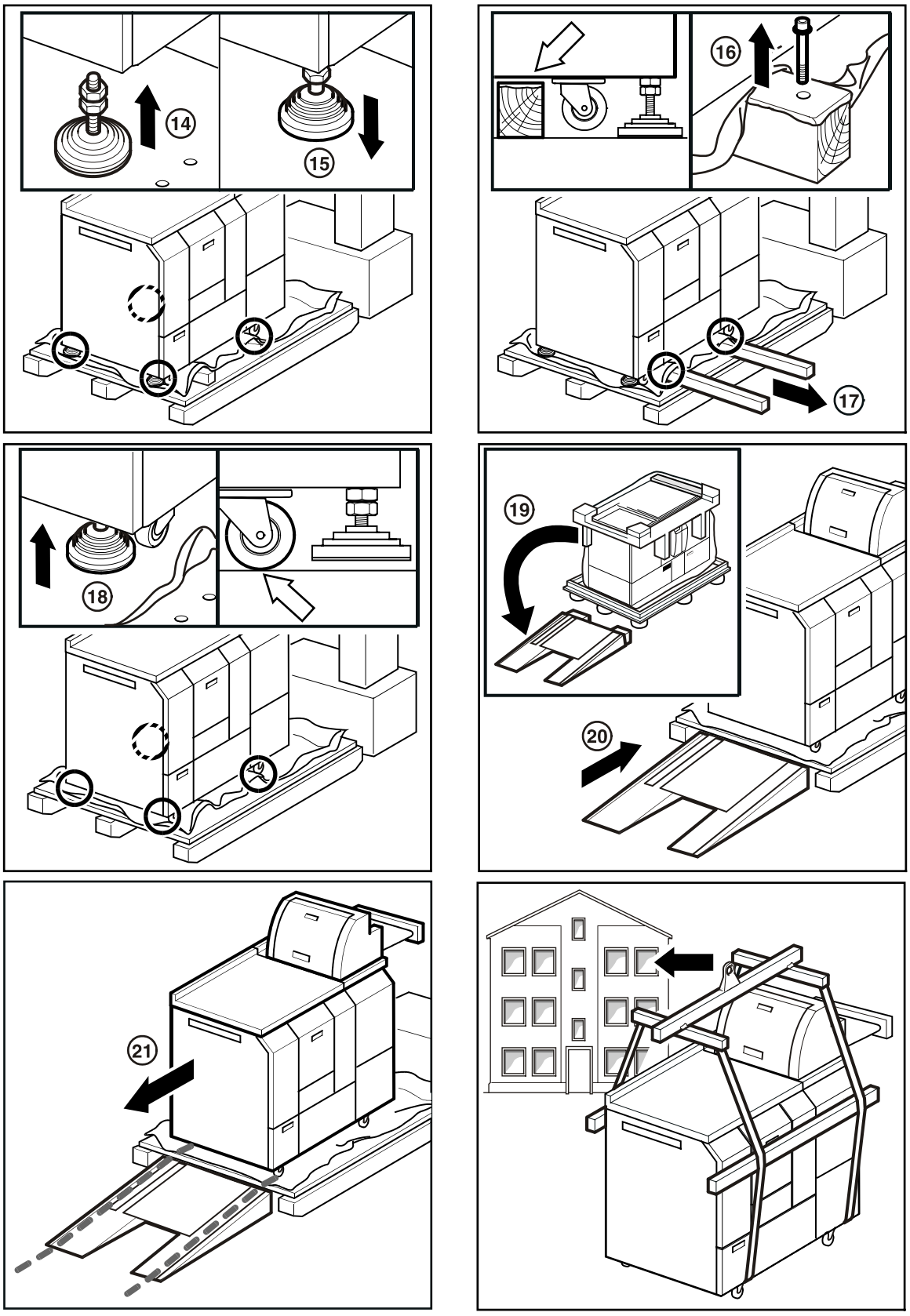


0247_004

4 Installing the Machine

Tools required for the installation of the machine:

- Set of long Allan keys with ball head (2 – 8 mm)
- Fork wrench size 10, 13, 16, 19, 24
  (size 10 and 19 to attach the Printer to the Paper Processor; size 16 and 24 for the adjusting feet)
- Ratchet with inserts to remove the machine components from the transport pallets
- Level (approx. 30 cm long)
- Phillips and slotted screwdrivers, two sizes
- Phase tester
- Multimeter

4.1 Installing the Paper Processor

A spirit level is required to level the machine (length approx. 30 cm).

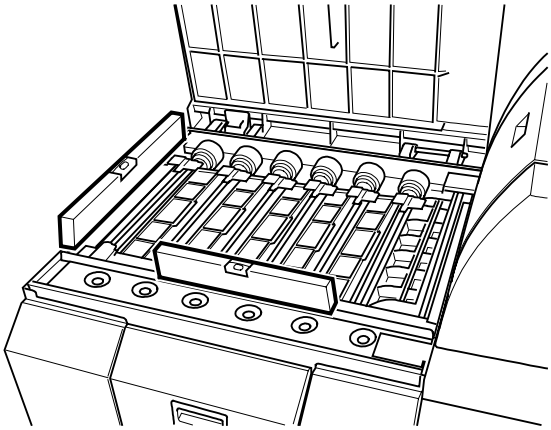
Note
The drive motor frequency must be checked prior to machine startup and adapted to the local supply if necessary (50Hz or 60Hz). The located on the back of the machine. Therefore it can only be checked or adapted in case of sufficient distance from the wall (approx. 60 cm). If the machine is installed closer to the wall make sure to check and/or adapt the motor frequency before the machine is installed (see ⇨ *Drive motor adaptation 50Hz / 60 Hz*).

- Press the discs into the stands for the adjusting feet and place the stands below the four adjusting feet.

Note
The two machine feet in the rear can only be reached from the rear side.

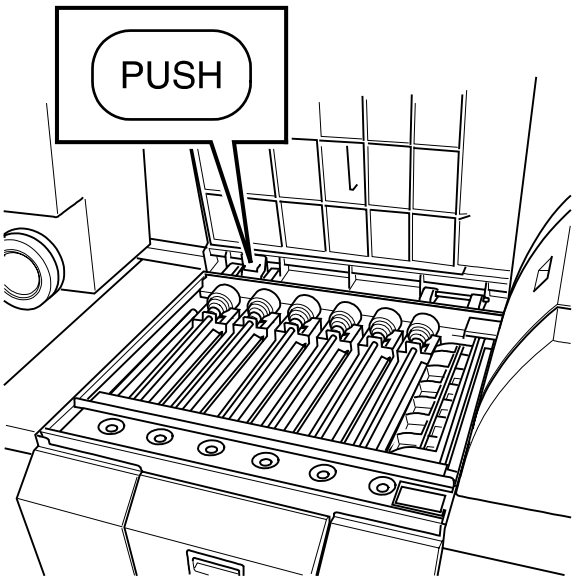
- Unscrew the adjusting feet until the castors are 2 to 3 mm away from the floor.
- Open the Paper Processors top cover until it engages (only engages in vertical position).

- Remove all crossovers and put them aside. Do not stack the crossovers so as not to damage the rollers and paper guide surfaces.
- Open the rack locks (at the rear edge of the tank section).
- Remove the racks one by one, unpack them and insert them again.
- Mount the crossovers and lock the racks.
- Level the machine by placing a spirit level on top of the processing tank frames, in transport direction and crosswise, and adjusting the machine feet.



dlab2126

- Close the top cover of the Paper Processor. Hold on to the cover with one hand while unlocking it (press PUSH) and then close it.



dlab2595 (Fig. shows d-lab.2/2plus)

4.2 Removing the Transport Protections

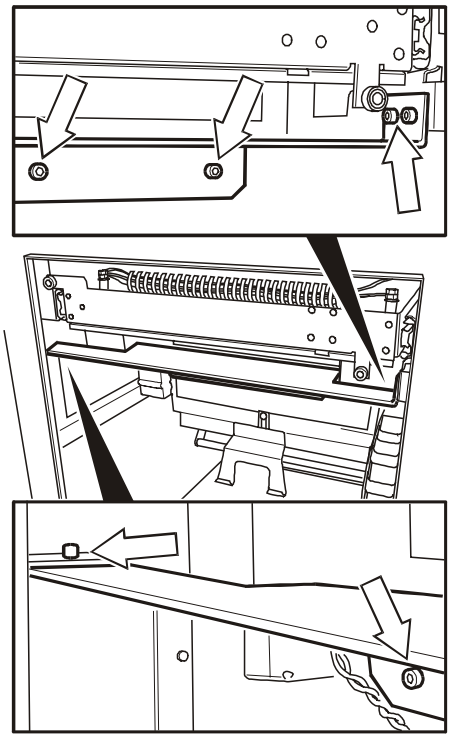
All transport protection devices are orange and must be removed prior to the machine startup.

Keep the transport protections for a further transport later on. They can be stored in the free space below the Printer table top, for example, (see ⇨ *Mounting the table top and additional work table*).

4.2.1 Print Machine (PM; d-lab.2plus/netlab.2plus) resp. Print Engine (PE ; d-lab.2)

The exposure unit or print machine is held by a support plate, which is fastened by seven Allan screws (accessible from the side after opening the Printer side door) and by two hex-head screws (accessible from the top after removing the scanner panels and pulling out the main computer).

Lateral transport protections

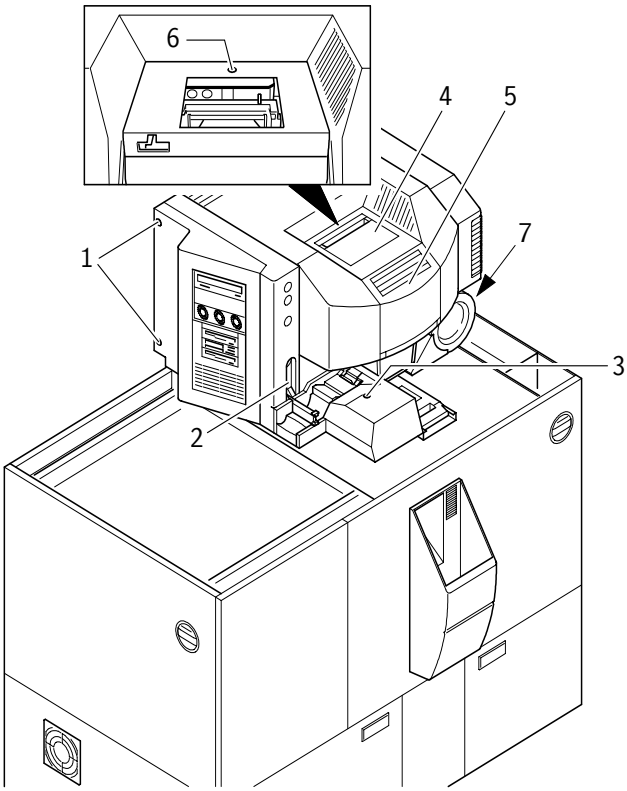


dlabr093

- Open the Printer side door.
- Unscrew the seven Allan screws; thereby holding on to the support plate to keep it from dropping.
- Take out the plate and put it aside together with the screws (do not turn in screws).

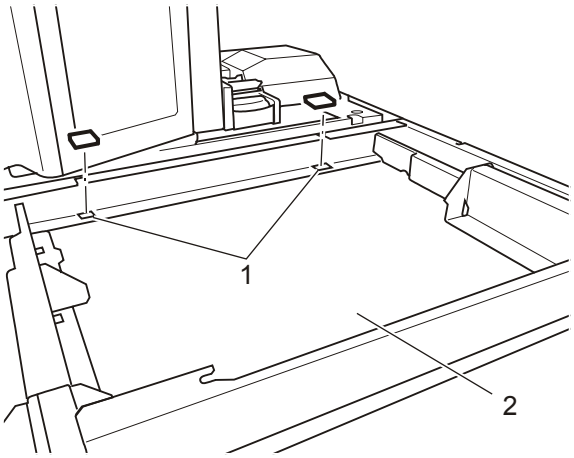
Upper transport protections

Applies to d-lab.2/2plus



G_GG230 (Fig. shows d-lab.2)

- Remove the panels of the main computer (loosen two screws left and right of the main computer).
- Undo the two fastening screws of the PC and pull out the PC until the transport protection screw located below the PC is accessible.
- Remove the cover of the cartridge feeder (3) (Allan screw size 3).
- Remove the lamphouse cover: remove the lamp lid (4) and the filter cover (5); one Phillips screw (6).
- Remove the scanner panels: two Philips screws (2 and 7).



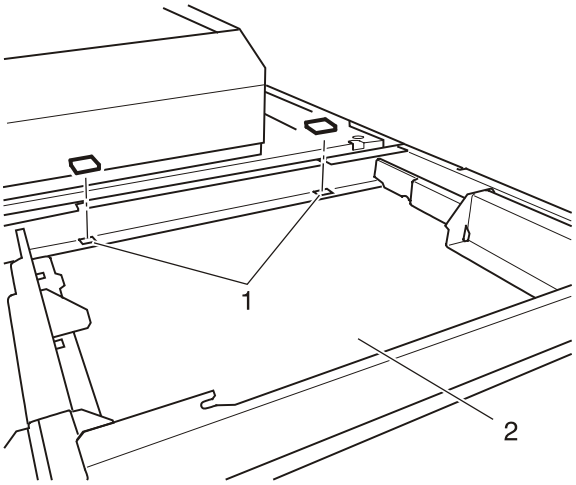
G_GG713

- Loosen both transport protection screws (1) and remove them.
- Insert the two enclosed black dummy plugs instead.

CAUTION!
Without dummy plug light may enter and fog the paper in the Printer section.

- Push in the PC and fasten it (do not yet mount the panels).

Applies to netlab.2plus

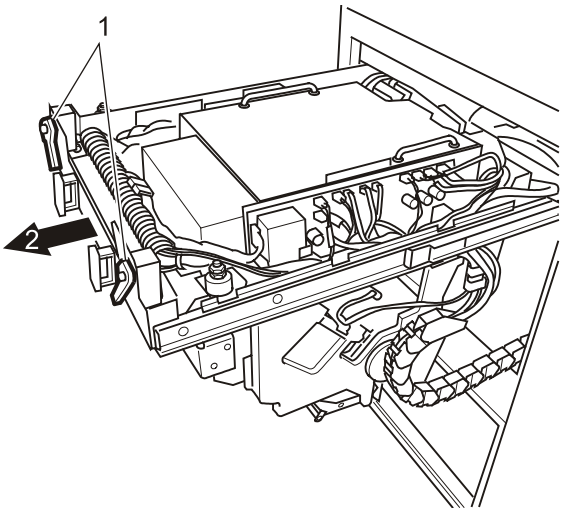


0247_007

- Loosen both transport protection screws (1) and remove them.
- Insert the two enclosed black dummy plugs instead.

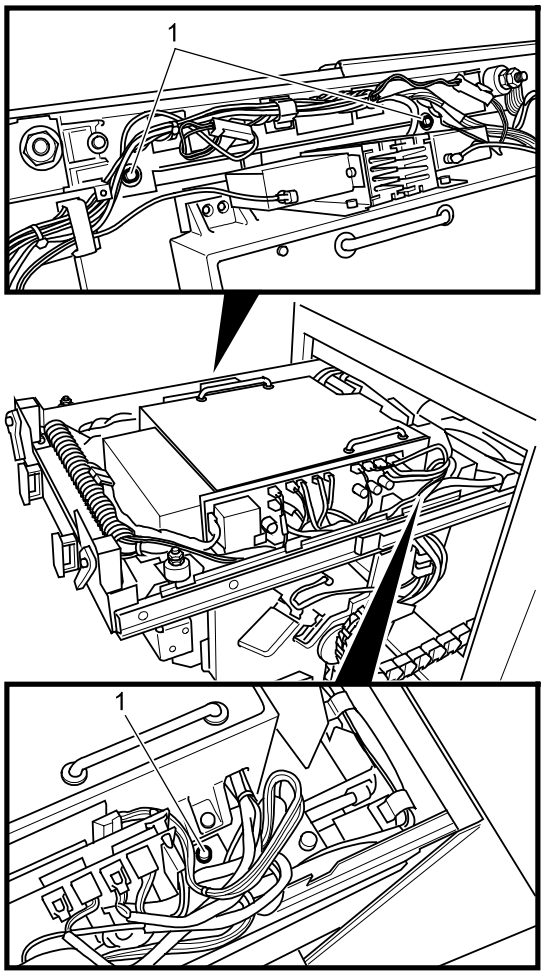
CAUTION!
Without dummy plug light may enter and fog the paper in the Printer section.

Check the safety screws



dlab2005b

- Open the lock of the print machine (PM) (two levers, 1) and pull out the print machine (2).



ri002

- Check the safety screws (1) and adjust if necessary:
  - The distance between screw head and plate should be approx. 2 mm.
  - The screws must be locked by a nut since otherwise they may tighten on its own.
    If the screws are too tight, vibrations may be transmitted to the print engine.

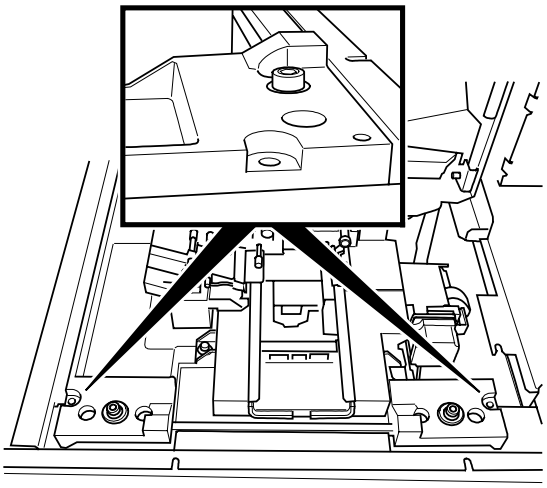
These screws are a precaution in case a rubber connection breaks.

- Close the Printer side door.

4.2.2 Scanner

Applies only to d-lab.2/2plus

For transport protection the scanner is mounted on the Printer frame by means of four screws (two in the front and two in the back). The rear screws can only be accessed after the scanner panels have been removed.



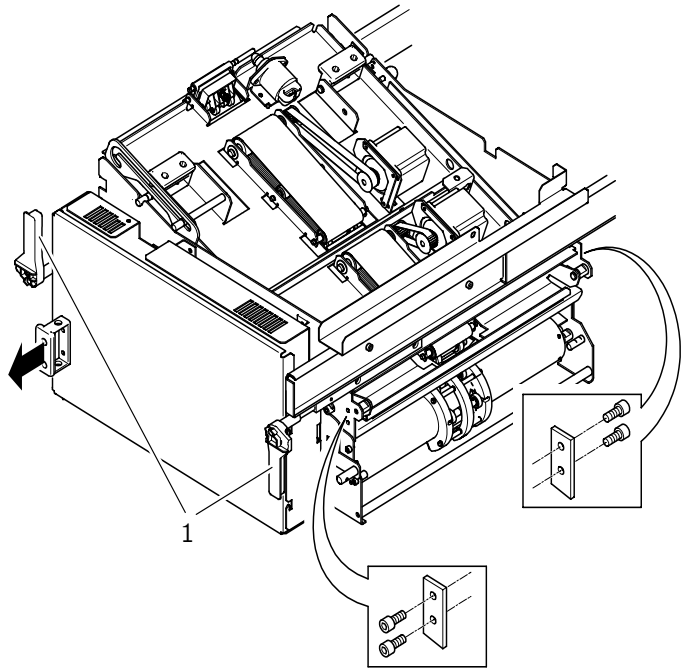
dlabi199

- If the panels are mounted, remove the panels of the main computer, cartridge feeder, lamphouse, and scanner (see ⇨ *Print machine / upper transport protection*).
- Unscrew the Allan screws front (see ⇨ illustration) and back, remove the orange metal brackets and put them aside together with the screws (do not turn the screws back in – do not mount the panels yet).

4.2.3 Transport Section / Feeder Unit (FU)

Applies only to d-lab.2plus/netlab.2plus

The feeder unit is secured with two transport protections, mounted by two screws each.



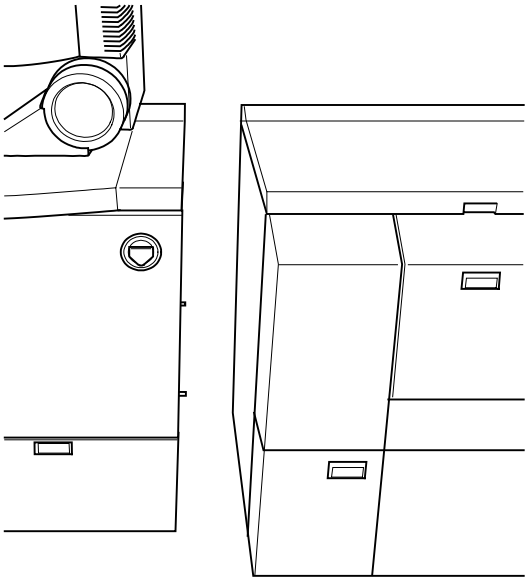
G_FU114

- Open the Printer front door.
- Undo the locking lever of the feeder unit and pull out the feeder unit.
- Loosen the two transport protections front right and rear right side and put them aside together with the screws (to not turn in the screws again).
- Push in the feeder unit, lock it and close the Printer front door.

4.3 Connecting Printer and Paper Processor

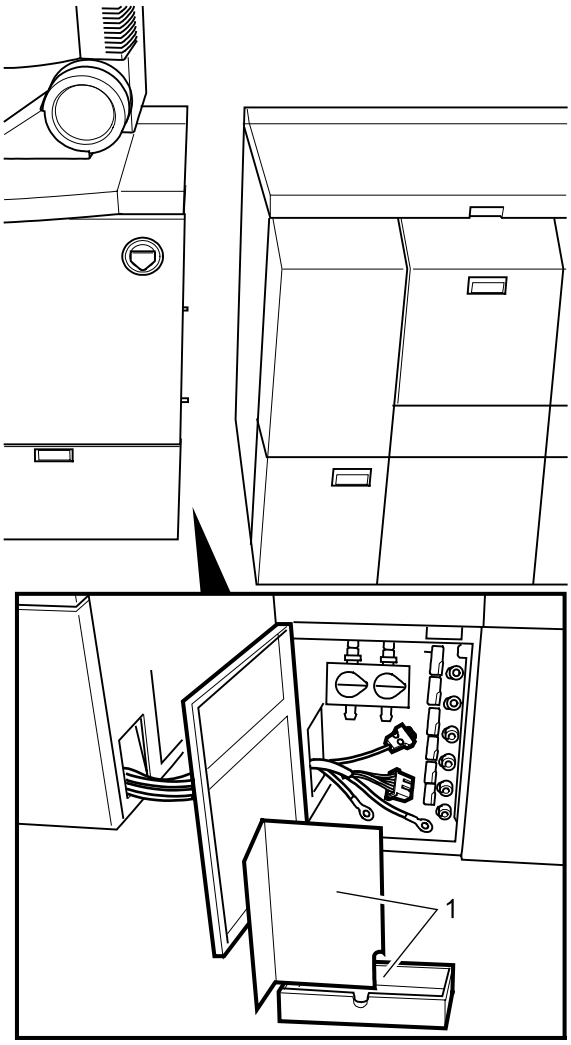
1. Installing the cable connections Printer / Paper Processor

The Printer cables are taped to the outside on the right.



dlab2262 (Fig. shows d-lab.2/2plus)

- Push the Printer to the Paper Processor leaving a distance of approx. 10 cm.

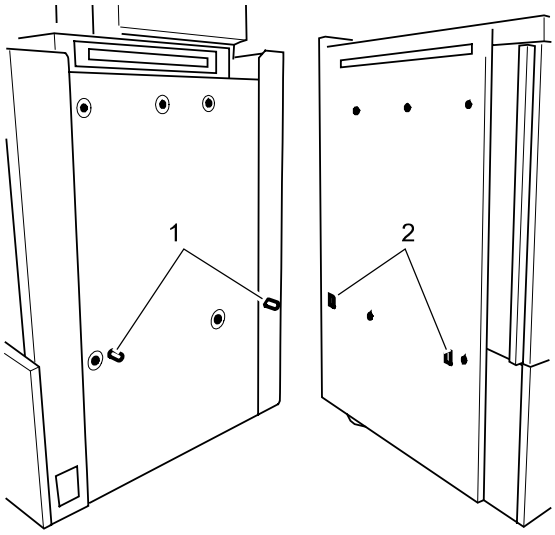


dlab2263 (Fig. shows d-lab.2/2plus)

- Open the door bottom left side on the Paper Processor.
- Remove the drip pan (1) and the metal plate mounted behind drain taps (loosen four screws).
- Thread the cables coming from the Printer through the opening in the side panel of the Paper Processor.
- Screw the two ground connections to the respective connection points next to the opening in the Paper Processor side panel.
- Connect the two Printer cables with the two cables of the Paper Processor (plug connection).
- hang up the cables, they must not touch the machine bottom.

CAUTION!
Fasten the grounding cables with care!

2. Pushing the Printer to the Paper Processor

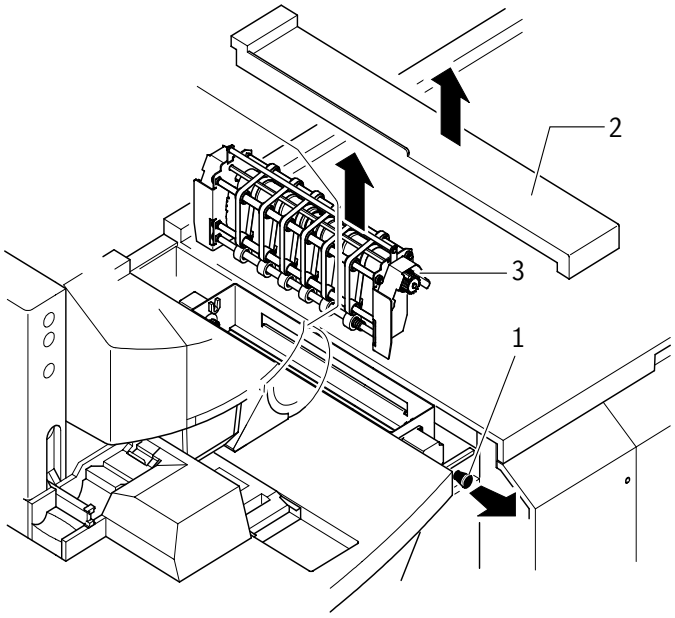


dlab2267

- Push the Printer against the Paper Processor, as close as possible, so that the centering bolts (1) fit in the oblong holes of the Paper Processor (2).
  The Printer and the Paper Processor should be as close as possible. Pushing them again later on is not possible because of the adjusting feet, which are unscrewed.
  Make sure that no cables are clamped.

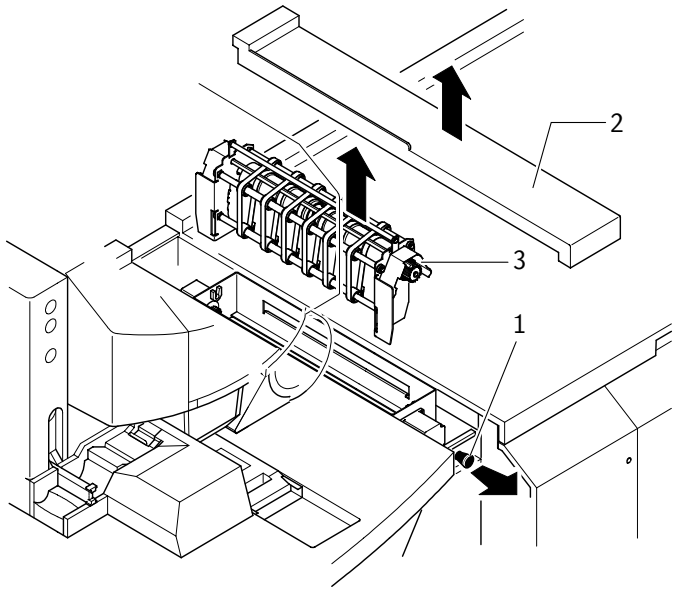
3. Docking Printer and Paper Processor

Printer and Paper Processor are connected by means of two hex-head screws at the bottom (in the right hand compartment for the paper magazine) and three Allan screws on top (in the area of the sheet transfer (ST).

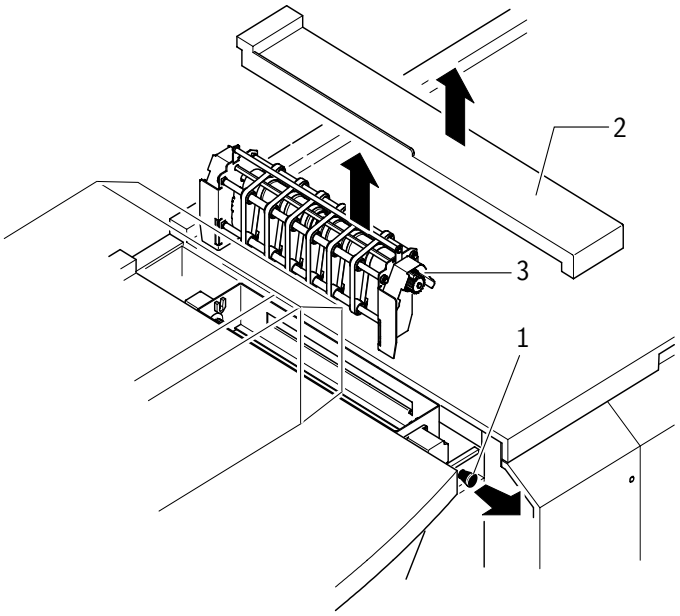


G_GG226 (Fig. shows d-lab.2)

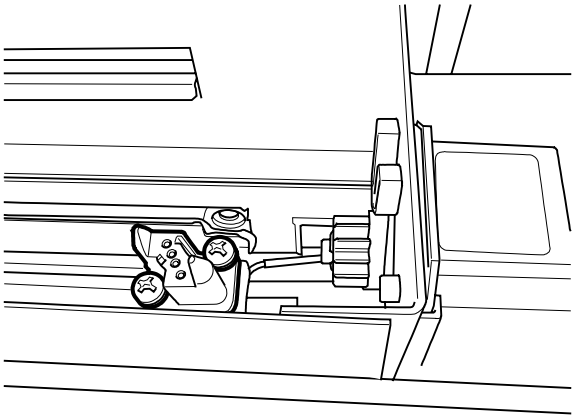
- Open the Printer front door.
- Pull the button top right (1), lift the cover (2) of the sheet transfer unit (ST) slightly, pull it to the front by a few centimeters and remove it.
- Take out the sheet transfer (ST) (3).



G_GG126 (Fig. shows d-lab.2plus)



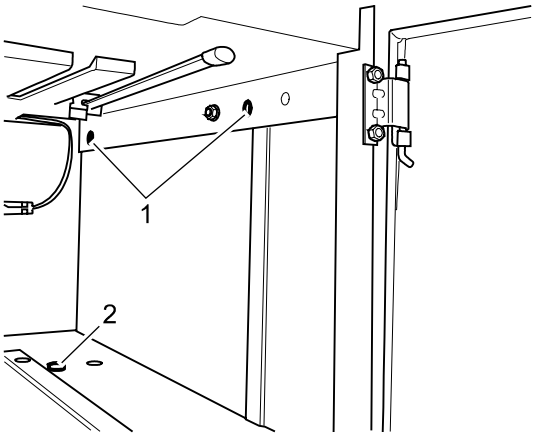
G_GG126b (Fig. shows netlab.2plus)



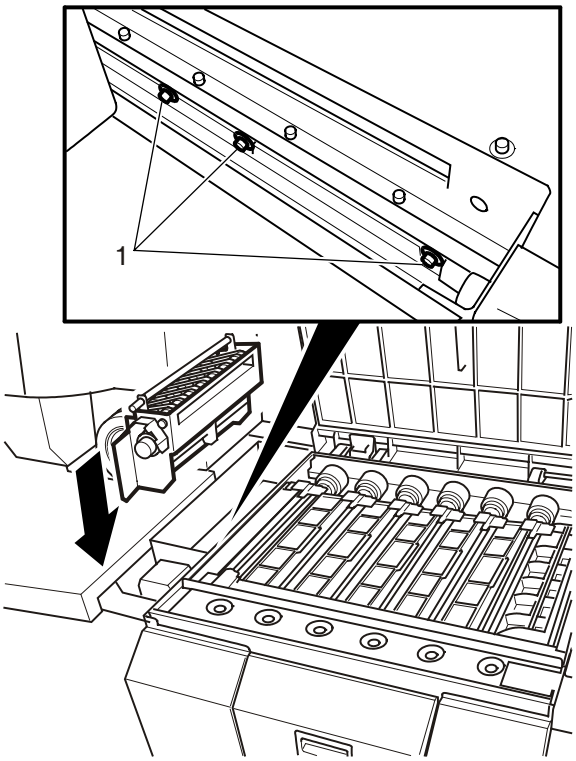
dlab2599

- Open the plug connection (two screws).

- Open the Paper Processors top cover until it engages (only engages in vertical position).
- Remove the CD feed roller set and the roller shutter (better view of the transfer angle when the Printer is attached to the Paper Processor).
- Open the door to the right hand paper magazine compartment.
- Adjust the Printer height by turning the three adjusting feet until the two holes for the hex-head screws (1) are aligned on one level with the corresponding holes of the Paper Processor.
  - In this position the centering bolts are in the upper position of the oblong holes in the Paper Processor.
  - Due to the shape of the two screws their shoulders only fit in the holes if Printer and Paper processor are precisely aligned.
  - For the adjustable foot inside the Printer use an 8 mm Allan key.
  - Make sure that the Printer is level (if necessary check with a spirit level).
  - Observe the distance between Printer and Paper Processor, they must be as close as possible.
- Tighten the two hex-head screws with a fork wrench size 19.



dlab2057



G_ST701 (Fig. shows d-lab.2/2plus)

- Connect the Printer and Paper Processor in the area of the sheet transfer (ST) by means of the three Allan screws (1).

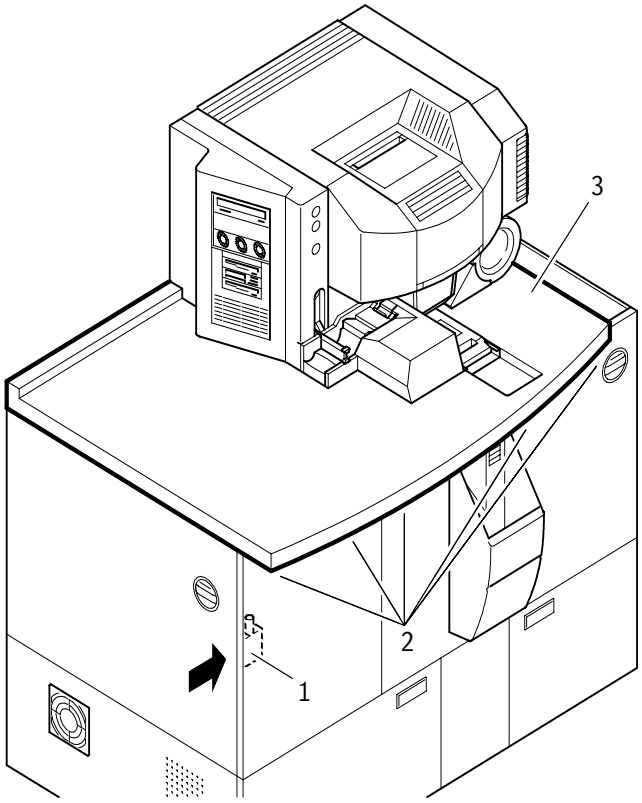
- Close the plug connection.
- Insert the sheet transfer ST.
- Mount the cover of the sheet transfer (ST): Insert the back first, slightly lifting the front. Then pull the button on top in the Printer, lower the front edge of the cover, and release the button again.
- Close the Printer front door.
- Insert the CD feed unit and the roller shutter again.
- Close the top cover of the Paper Processor. Hold on to the cover with one hand while unlocking it (press PUSH) and then close it.
- Mount the metal plate behind the drain taps (four screws), insert the drip pan, and close the door.

4.4 Mounting the Table Top and Additional Work Table (Optional)

Applies to d-lab.2/2plus

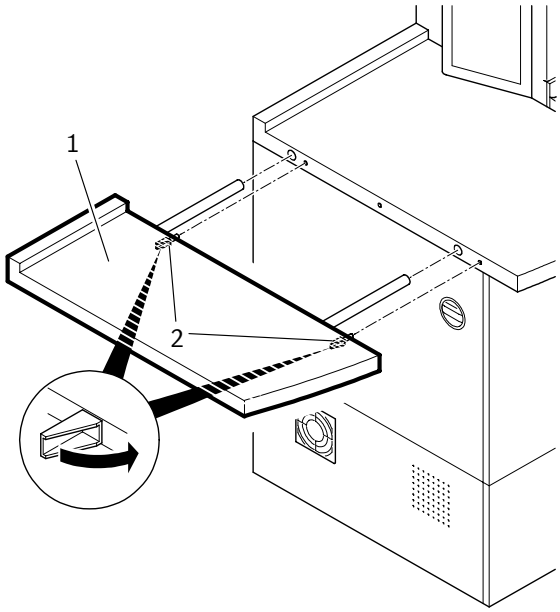
- Remove the panels, if not removed before for a previous step (see ⇨ *Removing transport protections*).

Note
The room under the table top can be used to store the transport protections.



G_GG227 (Fig. shows d-lab.2)

- Mount the table top:
  Place the table top on the machine and slide it in. The table may have to be tilted a little on the main computer and lifted in the negative carrier area. The screws of the cartridge feeder have to be slackened so that the latter can be lifted a little.
- Open the Printer side door, press the pin, which locks the left front door (1) to unlock it, and then open the left front door.
- Close the Printer side door.
- Fasten the table top with size 5 Allan screws (2 and 3). Access to screw (3) is from inside the scanner unit, for this purpose open the front door.

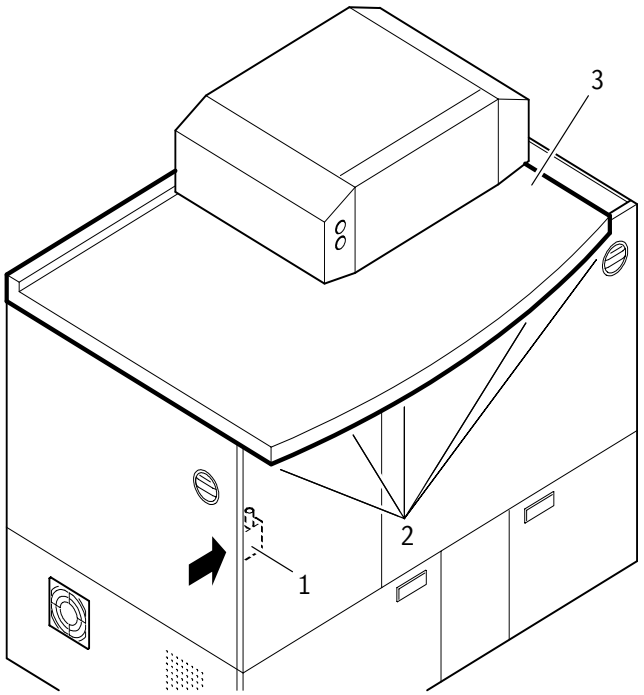


G_GG128

- Mount the additional worktable (1) or put in the stoppers:
  - Mount the optional additional work table by pushing it into the openings on the left side of the table top (1) and fastening it with the two clamps from below (2) (close the clamps).
  - If no optional work table is to be mounted, put in the five blind stoppers (included in the accessory pack).
- Do not yet close the panels of scanner and main computer.

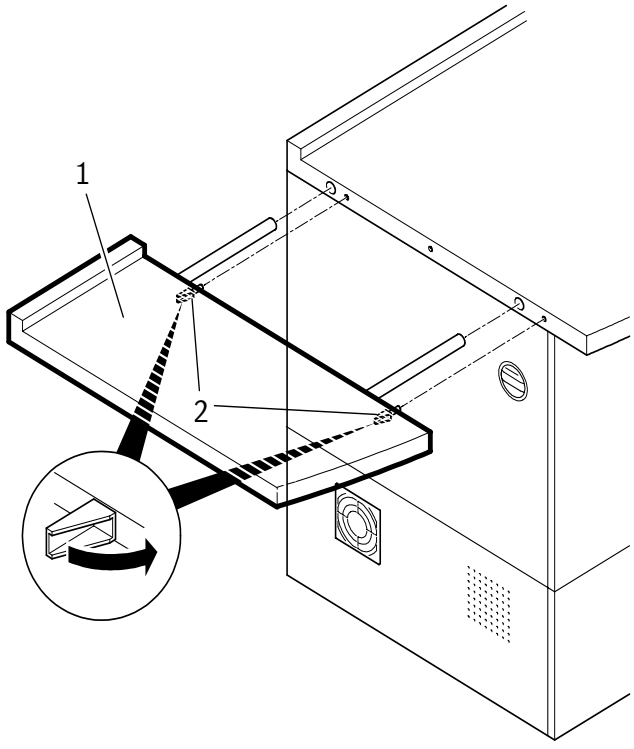
Applies to netlab.2plus

Note
The room under the table top can be used to store the transport protections.



G_GG127b

- Mount the table top:
  Attach the table top, just push it in (it is not necessary to remove the computer section).
- Open the Printer side door, press the pin, which locks the left front door (1) to unlock it, and then open the left front door.
- Close the Printer side door.
- Fasten the table top with size 5 Allan screws (2 and 3). Access to screw (3) is from inside the scanner unit, for this purpose open the front door.



G_GG128b

- Mount the additional worktable (1) or put in the stoppers:
  - Mount the optional additional work table by pushing it into the openings on the left side of the table top (1) and fastening it with the two clamps from below (2) (close the clamps).
  - If no optional work table is to be mounted, put in the five blind stoppers (included in the accessory pack).

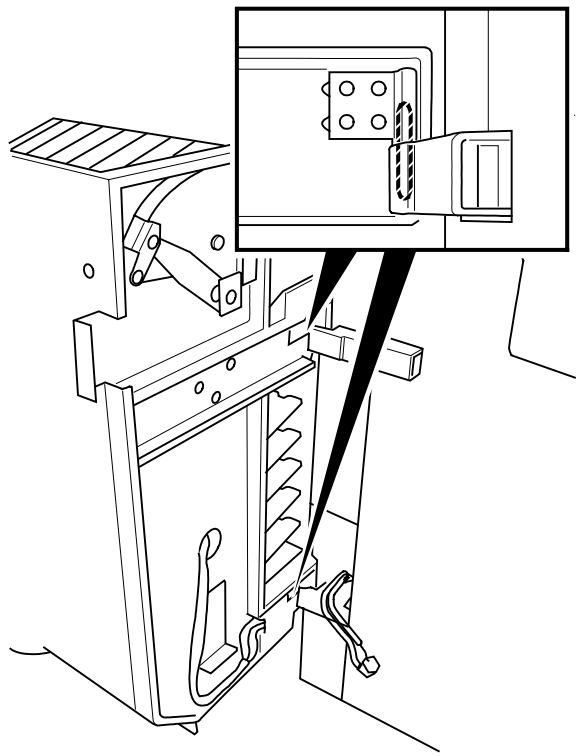
4.5 Mounting the Film Brush and Film Takeup

Applies only to d-lab.2/2plus

- Mount the film cleaning brush in horizontal position and fold up the upper section.
- Mount the film takeup:
  make sure that the film takeup is correctly attached on the left.

4.6 Mounting the Sorter on the Paper Processor

Hang the sorter on two bolts on the Paper Processor and fasten it with one screw. The screw and the two bolts are included in the sorter box.

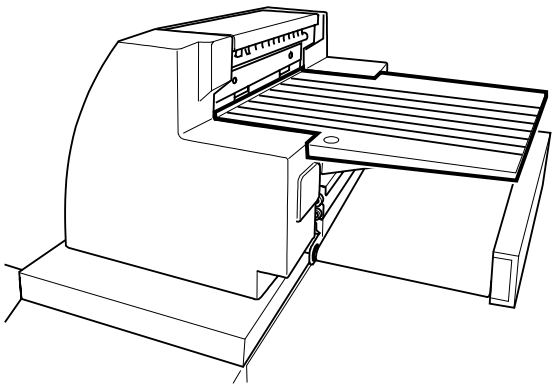


dlab2504

- Hang the two bolts in the lugs on the Paper Processor. The shorter bolt must be inserted in the upper position, with the flat facing up.
- Mount the sorter on the hinges.
- Connect plug and socket for the drive motor.
- Fasten the sorter on the Paper Processor (right hand side wall, 1 screw).

4.7 Mounting the Deposit for Large Prints

The deposit tray is included in the accessory pack of the Paper Processor.



dlab2505

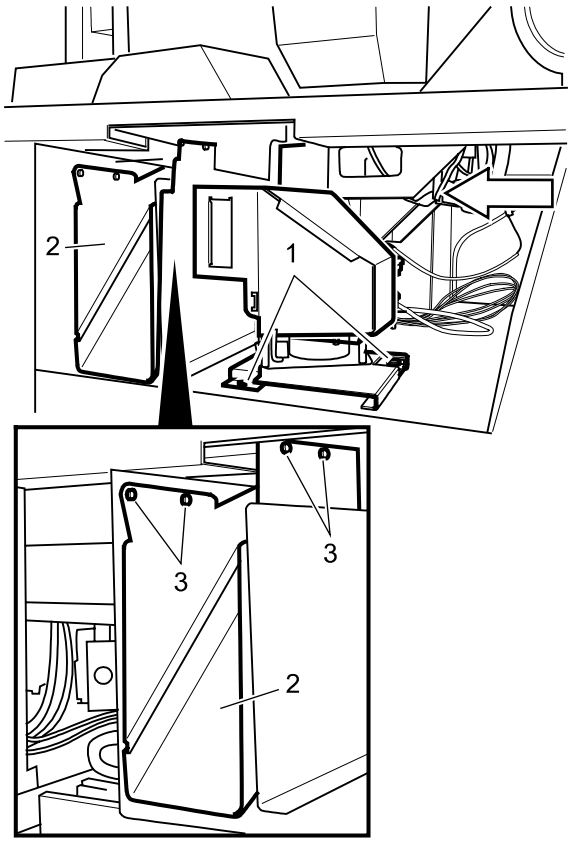
- Mount the deposit tray and screw it on.

4.8 Mounting the Zoom lens (optional)

Applies only to d-lab.2

For this, the fixed focus lens must be dismounted.

Slotted and Phillips screwdrivers
Allan key size 5

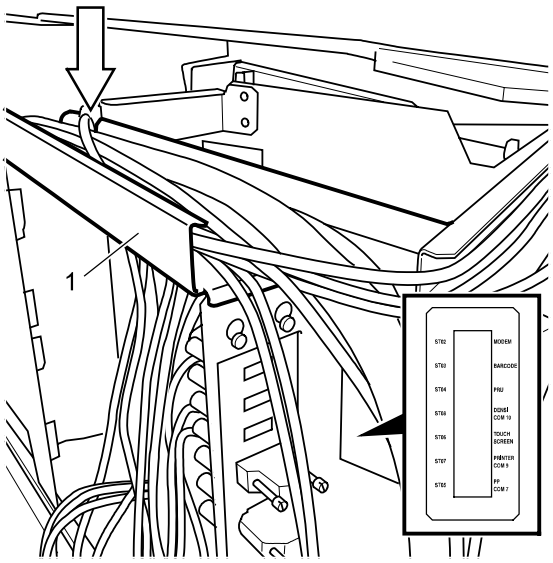


dlabr270

- Remove the fan for the CCD cooling (1):
  2 screws
- Dismount the film chute (2):
  4 knurled screws (3)
- Remove the fix-focus lens:
  Loosen 4x size 5 Allan screws (see *arrow*) on the lens carrier. Thereby press the lens by the handle against so that the lens cannot drop down when the screws are removed. Otherwise it may become useless!
- Mount the zoom:
  Fit 2 cables to the Zoom Controller board. Push the zoom with the handle into the holding pins on the lens carrier and tighten the Allen screws.
- Connect the 2 cables on the CCD. To do so turn the CCD manually by approx. 90° to the right until there is access to both sockets. One of them must be screwed.
- Fasten the fan and the film chute again.
- Adjust the position of the film chute until it fits in the recess in the Printer door!

4.9 Connecting the LCD Screen (Optional) or CRT Monitor

Applies to d-lab.2/2plus

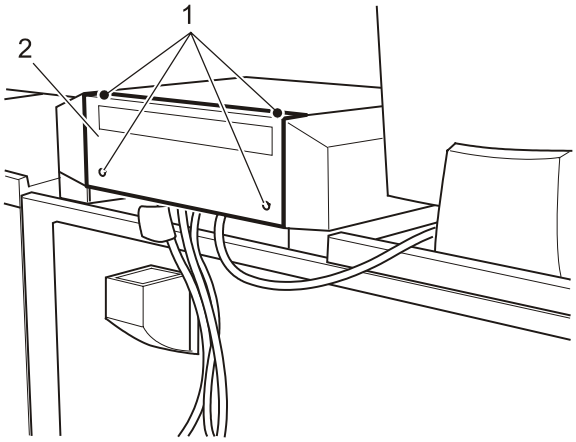


dlabr307

- Remove the panels of the main computer and the scanner (see ⇨ *Removing the transport protections*).
- If the access from the back of the machine is not possible, pull out the main computer until you have access to the back of the computer.
  If there is access form the back, remove the rear panel of the scanner housing (screws).
- Connect the VGA cable (15-pin), if applicable the touch-screen cable (9-pin), and the power cable on the monitor.
- Thread the VGA cable through the upper cable duct (1) and through the recess to the main computer, and connect it there (socket *VGA Monitor*).
- Connect the touch-screen cable (9-pin) on the interface connector **Touch Screen** (ST06) behind the main computer (viewed from the machine front).
- Connect the power cable on the mains connector behind the main computer.
- Applies to d-lab.2
  Mount the panels.

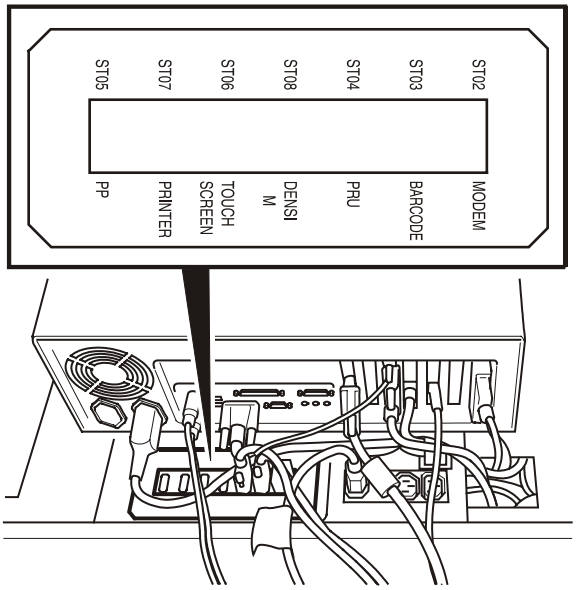
  Applies to d-lab.2plus
  Do not yet mount the panels
  (see ⇨ *Connecting the drive bay*).

Applies to netlab.2plus



0247_014

- Remove the rear cover (2) (screws, 1).



0247_015

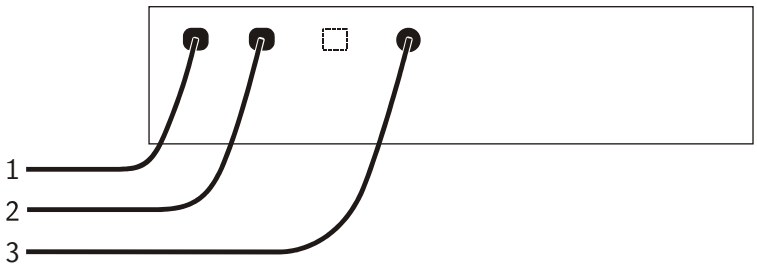
- Connect the VGA cable (15-pin), if applicable the touch-screen cable (9-pin), and the power cable on the monitor.
- Connect the VGA cable on the main computer (*VGA Monitor* connection).
- Connect the touch-screen cable (9-pin) on the interface connector **Touch Screen** (ST06) behind the main computer.

- Connect the power cable on the mains connector behind the main computer.

4.10 Connecting the Drive Bay

Applies only to d-lab.2plus/netlab.2plus

Connect the drive bay with the corresponding three cables. One cable is for the power supply (via the main computer), the other two are for the data transfer.

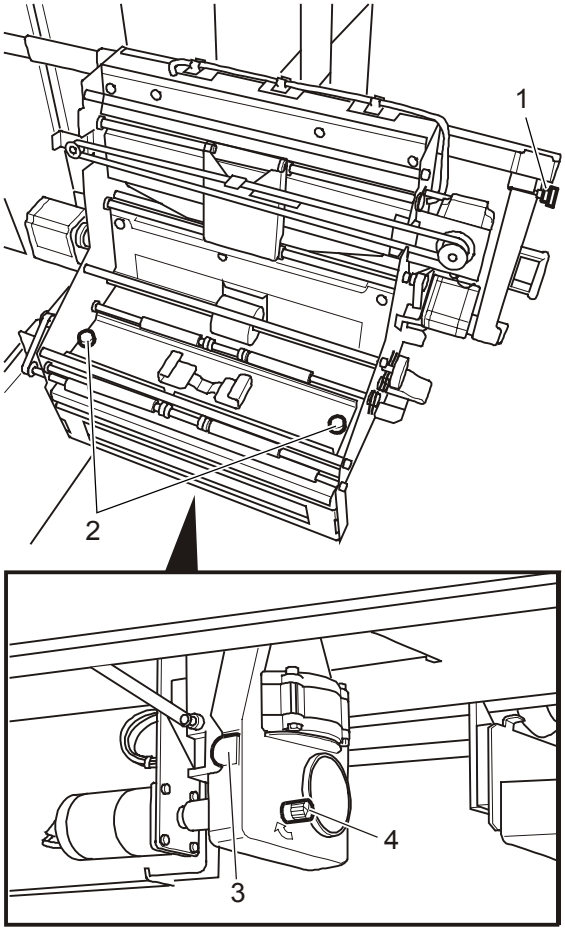


G_PC709

- Thread the three cables through the upper cable duct and through the opening leading to the main computer, and connect them on the main computer:
  Power cable (1) in the corresponding socket,
  USB cables (2,3) into any USB sockets of the computer.
- Mount the panels.

4.11 Inserting the Ink Ribbon for the Back Printer

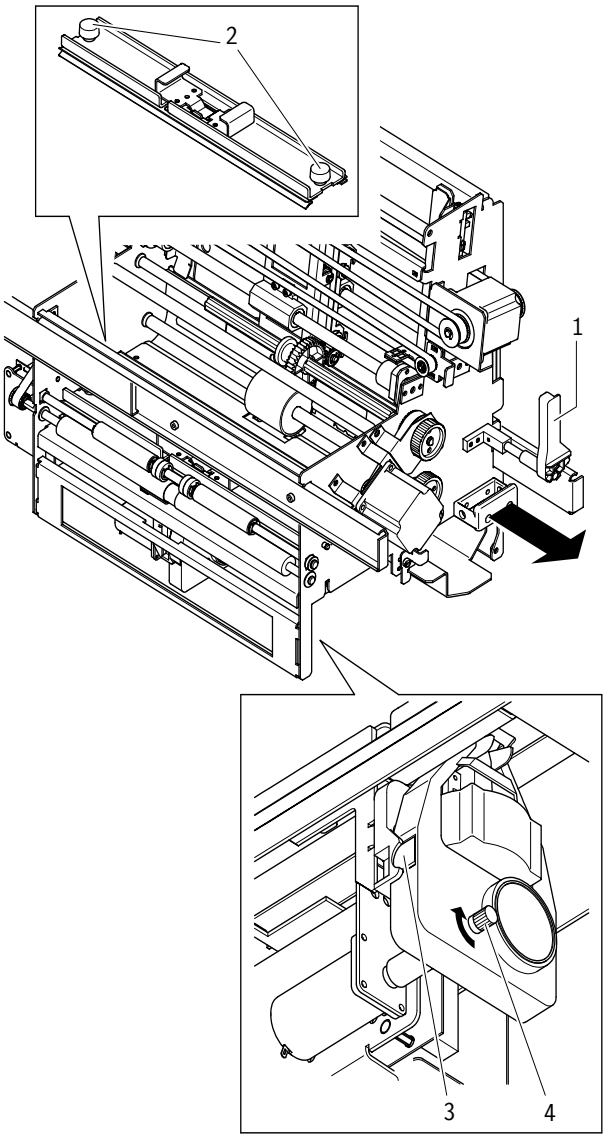
Applies to d-lab.2



dlab2074

- Open the Printer front door.
- Unscrew the locking screw (1, red) of the lane distributor (LD).
- Pull out the lane distributor on the telescopic rails.
- Unscrew the knurled screws (2) and remove the top cover of the back printer.
- Prepare the new ink ribbon cartridge: if present remove the foil strip on the ink ribbon, remove the red protection. The ink ribbon must be tight in the cartridge; if necessary tighten by the knob (4) (observe the direction indicated by the arrow).
- Insert the ink ribbon cartridge.
- Turn the knob (4) of the cartridge until you hear the cartridge engage.
- Push in the lane distributor (LD) and tighten the locking screw.
- Close the Printer front door.

Applies to d-lab.2plus/netlab.2plus



G_SD112

- Open the Printer front door.
- Open the locking lever (1, red) of the sheet distributor (SD).
- Pull out the unit on the telescopic rails.
- Unscrew the knurled screws (2) and remove the top cover of the back printer.
- Prepare the ink ribbon cartridge:
  if present remove the foil strip on the ink ribbon, remove the red protection. The ink ribbon must be tight in the cartridge; if necessary tighten by the knob (4) (observe the direction indicated by the arrow).
- Insert the ink ribbon cartridge.
- Turn the knob (4) of the cartridge until you hear the cartridge engage.
- Push in the sheet distributor (SD) and close the locking lever.
- Close the Printer front door.

5 Configuring the Power Supply

CAUTION!
The Minilab may not be set to the local connecting condition upon delivery. Therefore checking and conversion of the machine is necessary before the machine is connected with the local power supply.
Delivery condition:
230/400 V AC; 50 Hz; 3 phases / neutral

To check and adapt the voltage follow the steps below (see ⇨ following sections):

- Check and/or set the mains voltage correctly.
- Check and/or set the type of connections (1 phase / 3 phases) correctly.
- Check and/or set the mains frequency (50Hz/60Hz) of the Paper Processor drive motor correctly (50 / 60 Hz).
- Check and/or set the voltage of the dryer correctly.

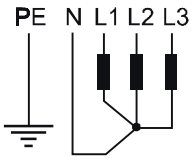
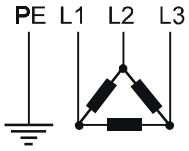
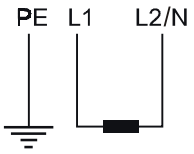
5.1 Selecting Mains Voltage and Connection Type, Connecting the Power Cable

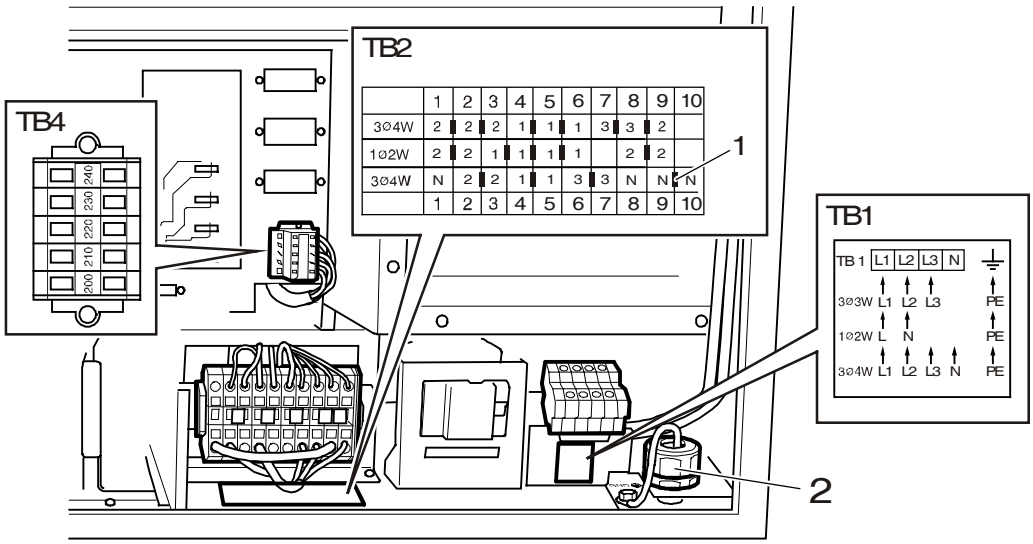
The electrical connection and the power supply unit are located in the Paper Processor.
For access remove the right hand side panel.

WARNING!
Risk of electric shock.
Only qualified professional personnel is permitted to open the side panel and to connect the machine to the lab supply system.

- Open the right hand side panel of the Paper Processor:
  If the sorter is mounted, loosen the screw, which holds the sorter on the Paper Processor, and swivel the sorter to the front.

Overview of connection types

Connection type	Pictograph	Nominal supply voltage	Nominal frequency	Nominal current	Site connection, fuse protection
3W + N + PE		220/380 V 230/400 V 240/415 V	50/60 Hz	16 A	3 x 16 A
3W + PE		200 V 210 V 220 V 230 V 240 V	50/60 Hz	25 A	3 x 25 A
2W + PE 1W + N + PE		200 V 210 V 220 V 230 V 240 V	50/60 Hz	32 A	1 x 32 A



dlab2287

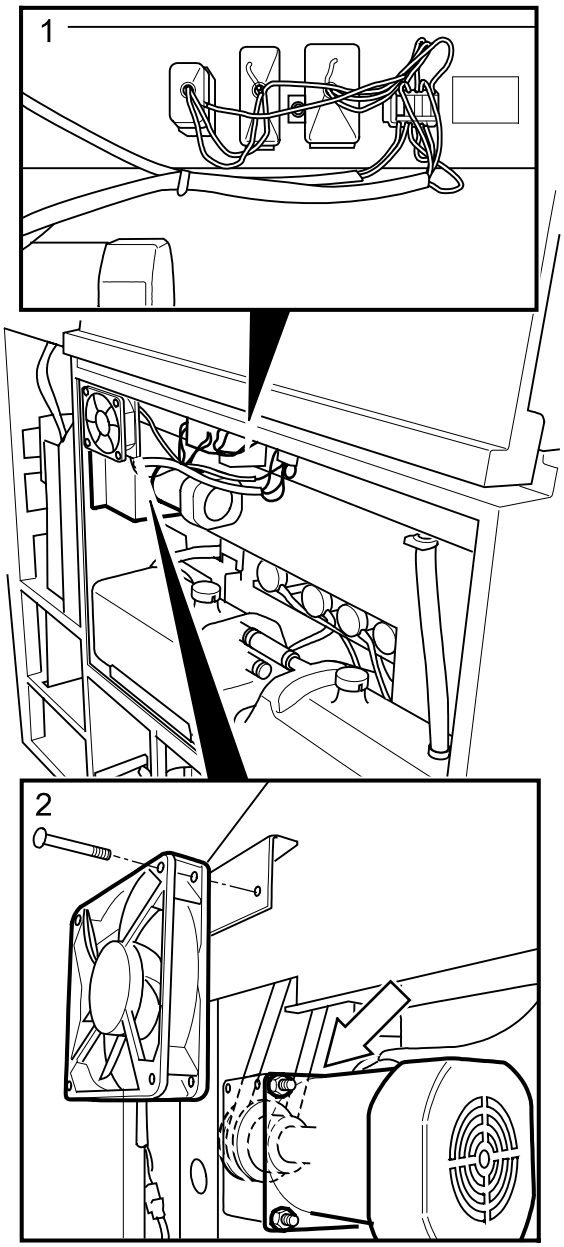
1 Jumper
2 Power supply cable
Ø Phase
W Wires
e.g. 3Ø4W = 3 phases + neutral

- Select the type of connection on the terminal block “TB2“ (see ⇨ illustration above).
- Select the appropriate operating voltage on terminal block “TB4” (power supply of the heaters, pumps, and motors).
  Selectable operating voltages are 200, 210, 220, 230, and 240 V AC.
- Run the power cable through the machine frame from below and connect it to terminal block “TB1” as shown in the illustration.

CAUTION!
Observe correct grounding!

- Mount the side panel of the Paper Processor and tighten the screws.
- If the sorter is mounted fold it back in and fasten it on the Paper Processor with the screw.

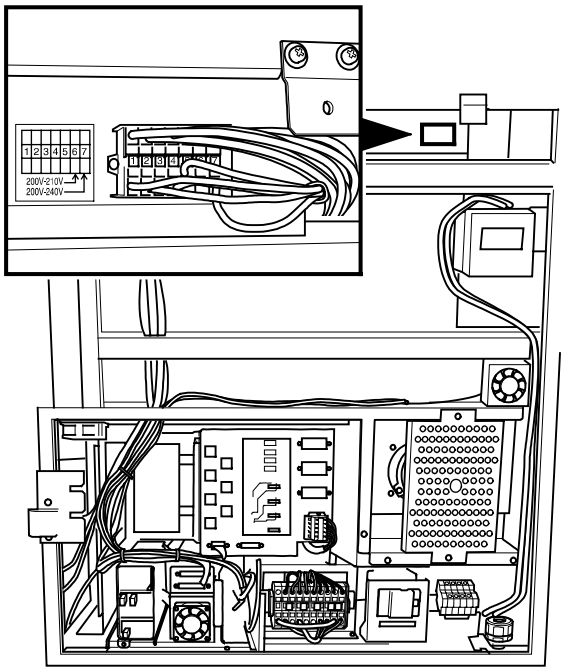
5.2 Adapt the Paper Processor to 50Hz / 60Hz



dlab2506

- Remove the rear panel of the Paper Processor (screws).
- Adjust the 50 / 60 Hz starting capacitor (1) for the Paper Processor drive motor to the mains frequency by changing the connections.
- Use the 50 / 60 Hz gear (2) of the Paper Processor to match the mains frequency if necessary, change the gear (take the gear of the accessory box).
- Go to **Service**, open the folder **Config Files** and select the **dlab_pp.cfg** file.
- Make sure that the number of digits of the correction value remains the same: If you need to change to value “3”, for example, and the previous value was “01”, enter “03” as the new correction.
- The **CYCLE** value must be set on “0” for 50 Hz operation and on “1” for 60 Hz operation.
- After completion of this correction exit the menu with **save, load,** and **import to data base**.

5.3 Checking the Dryer Power Supply



dlab2275

The power connection strip of the dryer (TB5) is located on the top right, on the right side of the Paper Processor.

– Bottom right cable in socket 6: 200–210 V
– Bottom right cable in socket 7: 220-240 V

- If necessary change the cable position.

5.4 Connecting the Machine to the Mains

- Check if the machine is switched off by the main switch; if not switch off now (switch in down position).
- Connect the power plug to the mains (do not yet switch on the main switch; see ⇨ *Putting the machine in operation*).

CAUTION!
Check the positioning of the mains power cable (risk of stumbling).

6 Mixing Chemicals

6.1 Safety Instructions

CAUTION!
Less poisonous, irritating, and caustic substances.

All photographic developers contain substances, which may irritate the skin, the mucous membrane and the eyes, and which may cause allergic skin reactions affecting very sensitive persons. For this reason, avoid long or repeated skin contact, especially with developer solutions.

Whenever you work with chemicals:

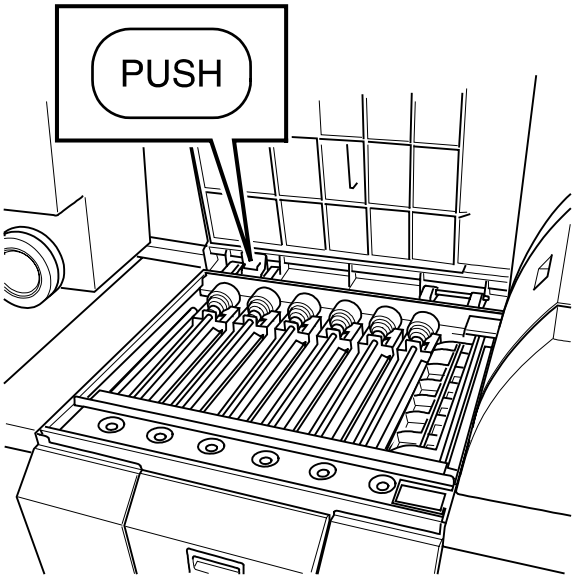
- Wear protection gloves und if possible change them daily.
- Wear an apron / protection clothes and clean them after use.
- Wear protection goggles.
- Wash any chemicals which splashed on your skin immediately with fresh water.
- If, in spite of these precautions, splashes do get into your eyes, wash them immediately with plenty of water, pulling apart the eyelids. Then consult an oculist!

Store new chemicals in a safe place, as well as exhausted chemicals until their disposal. Mind chemical residues in the boxes (Easy Paper Box).

Observe the regulations for environmental protection (see ⇨ *Operation Manual – Operation Chapter 10*).

Collect leaking chemicals immediately and dispose of these chemicals. The above regulations must be observed.

For some steps in the chemical mixing process the tank section cover of the Paper Processor must be opened.

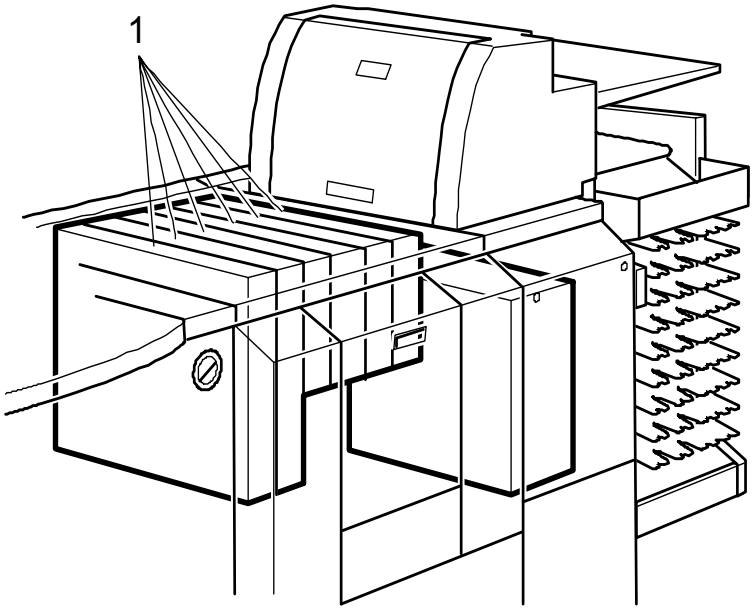


dlab2595 (Fig. shows d-lab.2/2plus)

CAUTION!
Risk of injuries if you unlock the opened cover accidentally or carelessly (by pressing PUSH) and the cover closes.
The tank section cover must only be opened if required by the work situation!
When opening the cover make sure it engages in the open position.

- Opening the cover:
  Open the top cover until it engages (only engages in vertical position).
- Closing the cover:
  Hold on to the cover with one hand while unlocking it (press PUSH) and then close it.

6.2 Chemical Sets



G_GG703

The minilabs d-lab.2, d-lab.2plus, and netlab.2plus work with the following two chemical kits:

- MSC/d-lab chemicals for first or new mixing of chemical processing solutions
  - Color Developer (CD)
  - Bleach-fix (BX)
  - Stabilizer (SB)

  The MSC/d-lab chemicals are delivered as concentrated solutions and must be mixed (diluted) for use. The tanks for these processing solutions (machine tanks) are located in the Paper Processor below the top cover of the tank section.
- Replenisher chemicals: They are used to replenish automatically the above mentioned chemicals during production.
  The replenisher chemicals are offered in the d-lab.2 Easy Paper Box. The box is inserted in the machine and the mixing process then starts automatically.
  One preparation is sufficient for about 110 m^2 of color negative paper (1 m^2 of paper corresponds to approx. 65 prints, size 10x15 (4x6″)).

Note
AgfaPhoto papers and AgfaPhoto chemicals are adapted to produce optimum results. Therefore we recommend to use only AgfaPhoto papers and MSC/d-lab chemicals.

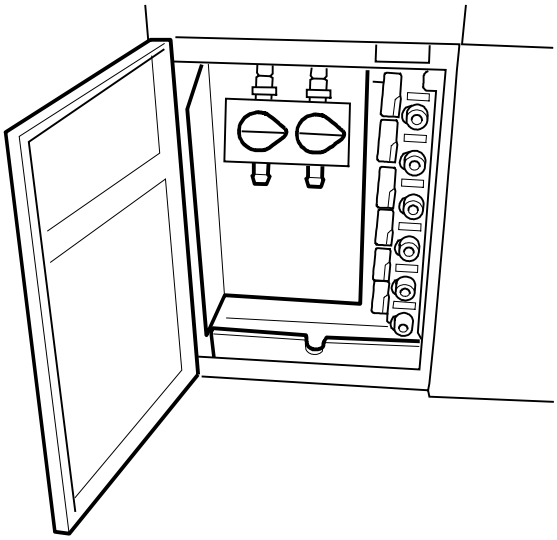
6.3 Mixing Chemical Solutions (MSC/d-lab Chemicals)

CAUTION!
Whenever you work with chemicals observe the *Safety instructions* at the beginning of this chapter!

WARNING!
Only work with liquids if the machine is switched off (main breaker off). This is to avoid short circuits and electric shock by splashing or leaking chemicals, and splashing or leaking water.

Mixing MSC/d-lab Chemicals

Note
when working on the machine tanks (open Paper Processor cover): To make sure that no chemistry splashes on the machine, we recommend to fasten the plastic covers (splash guard) of the accessory box on the machine.



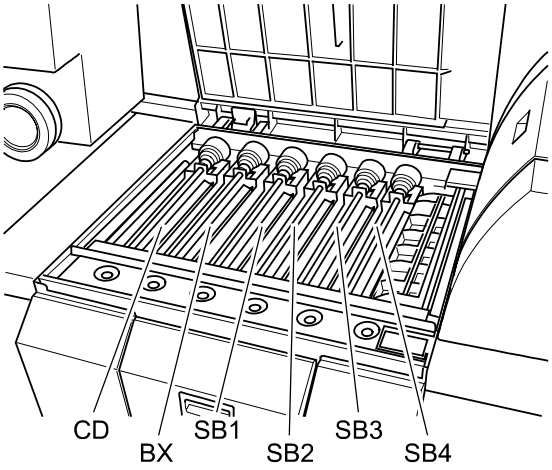
dlab2601

- Open the door bottom left side on the Paper Processor.
- Close the six drain taps for the machine tanks (right) and the two drain taps for the effluent tanks (top) or check if they are correctly closed.
- Close the door again.

- Remove the bottom panel in the middle of the Paper Processor (loosen the screw).
- Close the drain taps of the three replenisher tanks, or check if they are correctly closed.
- Fill the replenisher tank with water until the lower level sensors are covered to avoid the request for Easy Paper Box connection.
- Open the door on the right next to the docking station (push to unlock).
- Close the drain tap of the central water tanks or check if it is correctly closed.
- Fill the central water tank with water.
- Close the door again.
- Open the covers of the tank section; make sure that the cover engages in vertical position.
- Remove all crossovers and put them aside. Do not stack the crossovers to avoid damage to the rollers and paper guide surfaces.

Note
Upon delivery the racks are individually wrapped and inserted in the machine. If not done before, remove the racks now, unwrap and insert them again.

- Check if the lock of the racks (on the rear edge of the tank section) is closed.



dlab2512 (Fig. shows d-lab.2/2plus)

- Fill the machine tanks about halfway with water:
  SB1–SB4: approx. 6 liters each;
  BX and CD: approx. 9 liters each.

Note
We recommend to use warm water (approx. 30°C), as this speeds up the warm-up phase after switching on.

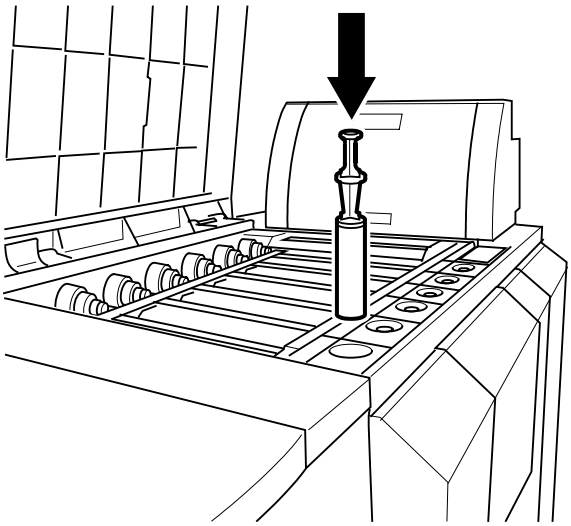
- Fill the concentrated solutions in the tanks or via funnel in the filter opening, according to the following sequence:
  - Stabilizer (SB)
  - Bleach-fix (BX)
  - Color developer (CD)

  Bleach-fix and developer consists of two or three components, respectively, A, B (C). Add the components in the sequence A – B (– C).

CAUTION!
To prevent contamination of the chemicals against the paper transport direction, the tanks must be filled in the above mentioned order. In case of contamination problems occur in production.

- Fill the machine tanks then with water until the solution level reaches the level of the overflow.
- Check the hose positioning in the complete Paper Processor:
  No leakage, sharp bends or squeezing.
  The hoses must be free of air bubbles (bubbles in the hoses result in incorrect calibration of the pumps and thus in problems in the production).

Inserting Chemical Filters



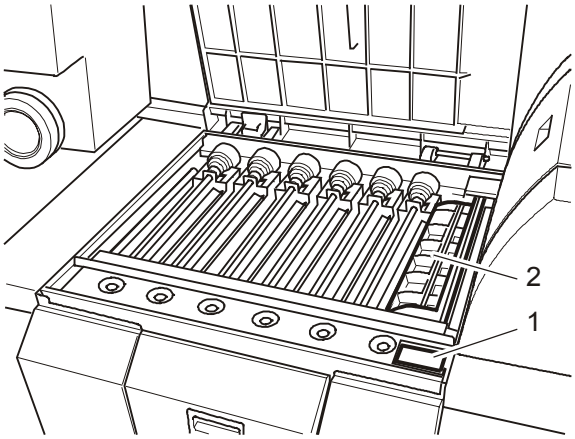
dlab2510a

- Take the chemical filter cartridges from the accessory box, rinse them in water to flush out any loose fibers, and mount them on the holders.
- Insert the cartridges in the respective openings according to the colored labels.
- It may be necessary to turn the filter rods a little so that the filters sit correctly.

6.4 Mixing Replenisher Chemicals (d-lab.2 Easy Paper Box)

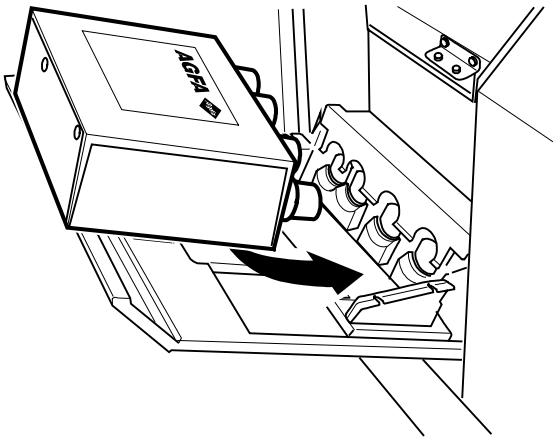
Note
Use for all three minilabs (d-lab.2, d-lab.2plus, and netlab.2plus) the d-lab.2 Easy Paper Box (Order number: 5KPGL)!
d-lab.3 replenisher chemicals cannot be used!

Note
Check the CD replenisher tank of the Paper Processors for sufficient presence of the small anti-oxidation plates. These plastic plates (CL+P4-6203) are filled in ex-factory and should cover the complete surface of the developer.



dlab2611 (Fig. shows d-lab.2/2plus)

- Fill seven liters of water into the ASTOR tank (1).
- Wet the rubber rollers of the squeegee unit (2) with water prior to the first paper transport. Otherwise the wet paper may stick to the dry rollers.
- Close the tank section cover:
  Hold on to the cover with one hand while unlocking it (press PUSH) and then close it.
- Switching on the machine: Proceed as described in *Switching on the Minilab*.
- Once the chemical solutions have reached the nominal temperature quickly empty the three replenisher tanks again, one after the other.
- Open the docking station.



dlab2277

- Insert an Easy Paper Box in the docking station with the sticker facing up.
- Close the docking station.

The replenisher chemicals are now mixed automatically. This is indicated by the constant lighting of the LED on the left side of the docking station. During this procedure the door is locked mechanically.

Note
There must always be a box present in the docking station (to reduce oxidation at the input nozzles):

- After the LED switched off, either insert a new (full) box as described above or leave the old (empty) box in the docking station until the user receives a message requesting a new box.

7 Putting the Machine in Operation

WARNING!
The Minilab must only be put in operation if all installation measures and the configuration of the power supply have been successfully completed. Especially if the electrical connection has not been correctly configured: there is a risk of electric shock.

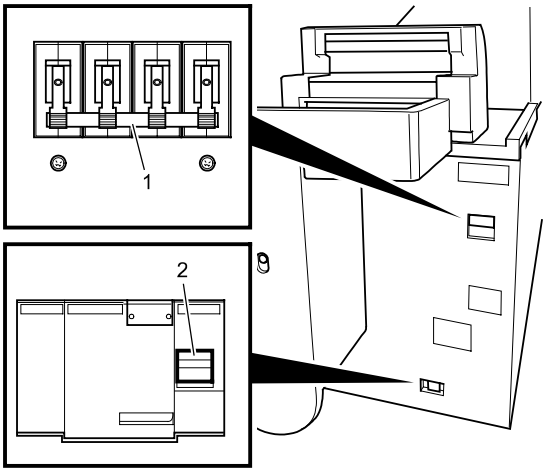
7.1 Switching on the Minilab

- Insert loaded paper magazines.

Note
We recommend to insert a magazine with the paper used most frequently (master paper). This paper is required for the tests for machine calibration (see ⇨ *Calibrating the machine: printing tests*).

Note
The paper magazines must be coded for the loaded paper (width and surface) to avoid malfunction of the machine (see ⇨ Operation Manual – Operation Chapter 6: *Changing the paper magazine and loading paper*)

⇥ Applies only to d-lab.2/2plus
Inserting a film carrier:
Any film carrier may be inserted. Without a film carrier the machine will not start without problems.



dlab2125

- Switch on the ground fault interrupter (GFI switch; 2), if necessary.
  The GFI switch remains always on.
- Switch on the main breaker (1).

The machine starts.

CAUTION!
If the Minilab must be switched off again, only use the main breaker in emergencies.

CAUTION!
Switching off via the main breaker reduces the life span of the laser and the main computer hard disk considerably (the fan of the lasers is switched off, so the required cooling of the lasers cannot be guaranteed). Paper jam may occur in case of paper in the Printer or in the Paper Processor.

Shutdown:

- Press the buttons **End of work** > **Shutdown** on the touch-screen.

Only switch off the main breaker if this is required by the operation (e.g. some routines during changing of chemicals; see ⇨ Operation Manual – Operation, *Chapter 3*, and *Switching the machine on and off* in the Operation Manual – Operation, Chapter 2).

Note
For the daily routines we recommend to start the machine via timer and switch off via the buttons **End of work** > **Shutdown**. Thereby the main breaker remains on (see ⇨ *Switching the machine on and off* in the Operation Manual – Operation, Chapter 2).

7.2 Checking the Software of the Paper Processor

Printer and Paper Processor are delivered as individual machines and will only be combined to the Minilab during the installation. Therefore the software installed on the Paper Processor must be checked:

- Check “Firmware Version” via ServiceGUI and compare with the information in file “ppsw.cfg” (folder `C:\dlab\dlab'version'\pp\install\ Dlab.2_Vxx`; see ⇨ *Service Manual – Repair*)

If the ServiceGUI indicates another version than the file, an update must be made as follows:

- After the software started up, change immediately to the ServiceGUI:
  - Select `Firmware Download`.
  - Select `Paperprozessor - p main software`.
  - Select the file `c:\dlab\ dlab.2+3_VXXX\PP\install\ Dlab.2_VYYY\d12.bin` and start the download.
- Once the download is completed, execute the script*:*
  scripts prosser\ dlab2_time_reset.txt
- Proceed with the following step of the Installation Instructions (see ⇨ *Entering Correction Values for the Paper Processor Temperatures and Pumps*) and check file “dlab_pp.cfg“ in addition and correct if necessary:
  DWSHT000
  BWSHT000
  SWSHT000
  WRLIM200
  DSTYP1

7.3 Entering Correction Values for the Paper Processor Temperatures and Pumps

At the inside of the lower, left hand door of the Paper Processor there is a sticker with the correction values xx for the temperatures and pumps:

DV temperature sensor [DVSNS] xx
BF temperature sensor [BFSNS] xx
ST temperature sensor [STSNS] xx
DW water replenish pump [DWADJ] xx
BW water replenish pump [BWADJ] xx
SW water replenish pump [SWADJ] xx

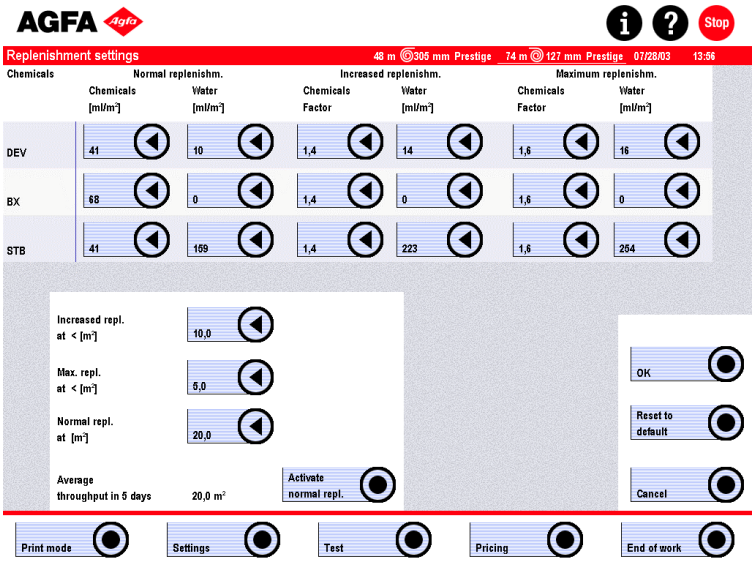
They must be checked, and entered again if necessary.

- Go to **Service**, open the folder **Config Files** and select the **dlab_pp.cfg** file.
- Make sure that the number of digits of the correction value remains the same: If you need to change to value “3”, for example, and the previous value was “01”, enter “03” as the new correction.
- The **CYCLE** value must be set on “0” for 50 Hz operation and on “1” for 60 Hz operation.
- After completion of this correction exit the menu with **save, load,** and **import to data base**.

7.4 Setting the Replenishment Rates

The replenishment depends on the throughput, i.e. it depends on the actually processed paper per day. When the machine is put in operation for the first time, a starting value must be entered.

Note
The replenishment data for the individual solutions DEV (developer), BX (bleach-fix), and STB (stabilizer) cannot be changed separately. If the replenishment rate is changed for one solutions, the other two solutions are automatically changed by the same ratio.



034

Check the preset replenishment:

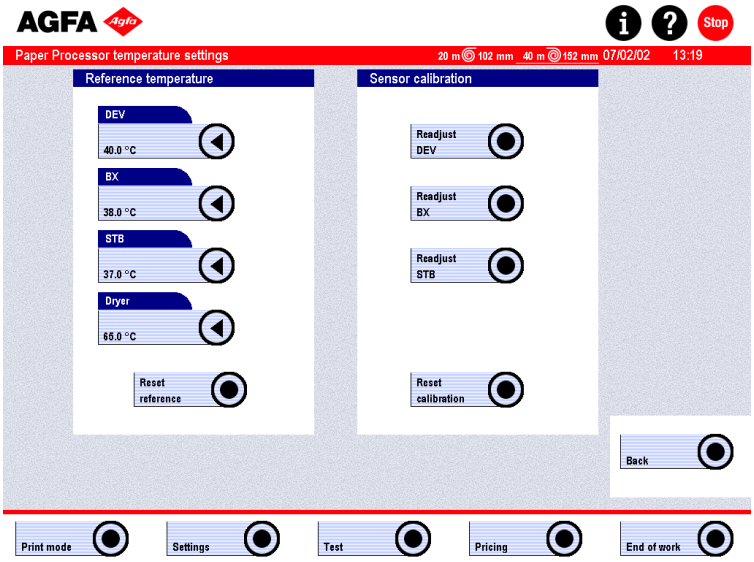
- Press in this order:
  Settings
  Machine settings
  PP Replenishm.

The **Replenishment settings** screen opens.

- If the value for **Average throughput in 5 days** is lower than “20”, press **Activate normal repl.**
  The value entered for **Increased repl.** (preset value “10”) is used as starting value for the Average throughput in 5 days.
- Press OK.

The actual average is calculated and displayed after five days of operation.

7.5 Setting Temperatures and Calibrating Sensors



014

Call up:

- Press in this order:
  Settings
  Machine settings
  PP temperature

The screen **Paper Processor temperature settings** opens.

Check the nominal values and adjust if necessary

- Check the values entered in the buttons **DEV**, **BX**, **STB** (developer, bleachfix, stabilizer) and **Dryer** one after the other, press the buttons, if necessary, and enter the respective nominal temperatures:

DEV	40 °C ± 0.3
BX	38 °C ± 3
STB	37 °C ± 3
Dryer	65 °C

Calibrate the temperature sensors

Note
The following steps must be carried out for all three solutions (DEV, BX, STB) one after the other!

- Press **Readjust DEV** [**Readjust BX** / **Readjust STB**].
  A window with a numeric keypad opens. The temperature of the selected solution is indicated in the first line of the dialog field.
- Remove the chemical filter of the respective solutions (DEV / BX / STB) as described in *Replacing the chemical filters* in Chapter 8.

CAUTION!
Observe the safety instructions for the handling of chemicals (see ⇨ *Safety instructions* in Chapter 3).

- Using a calibrated thermometer, measure the current temperature of the processing solution through the free opening of the filter holder.
- Enter the measured temperature value via the numeric keypad and **press OK**:
  The sensor calibration is executed.
- Clean the thermometer.
- Proceed with the same routine for the other two solutions.

Resetting the values

In case of incorrect inputs or incorrect calibration of the temperature sensors the default values can be activated:

- If necessary press **Reset reference** and/or **Reset calibration**.

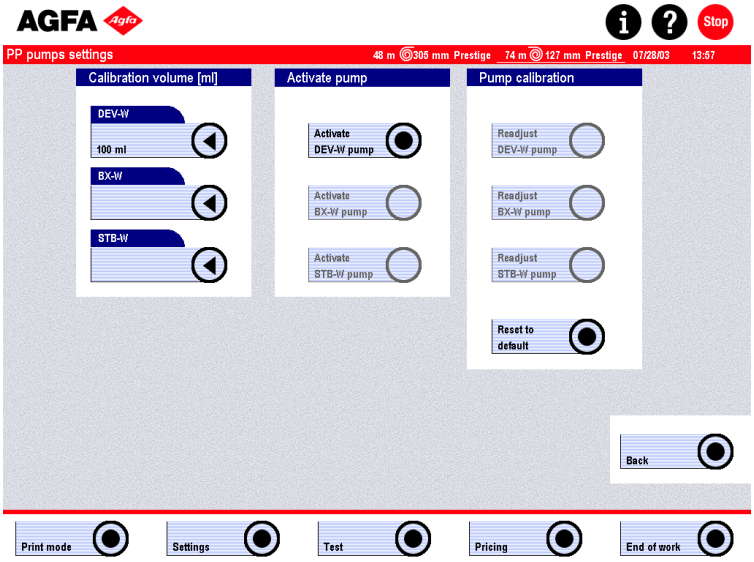
7.6 Calibrating the Water Pumps

WARNING!
Calibrating the water pumps involves a safety risk (electric shock), as it is necessary to work with liquid and the machine is switched on. Therefore we recommend to have the calibration made a service technician.

Note
The replenishment pumps are calibrated automatically.

Call up:

- Press in this order:
  Settings
  Machine settings
  PP pumps



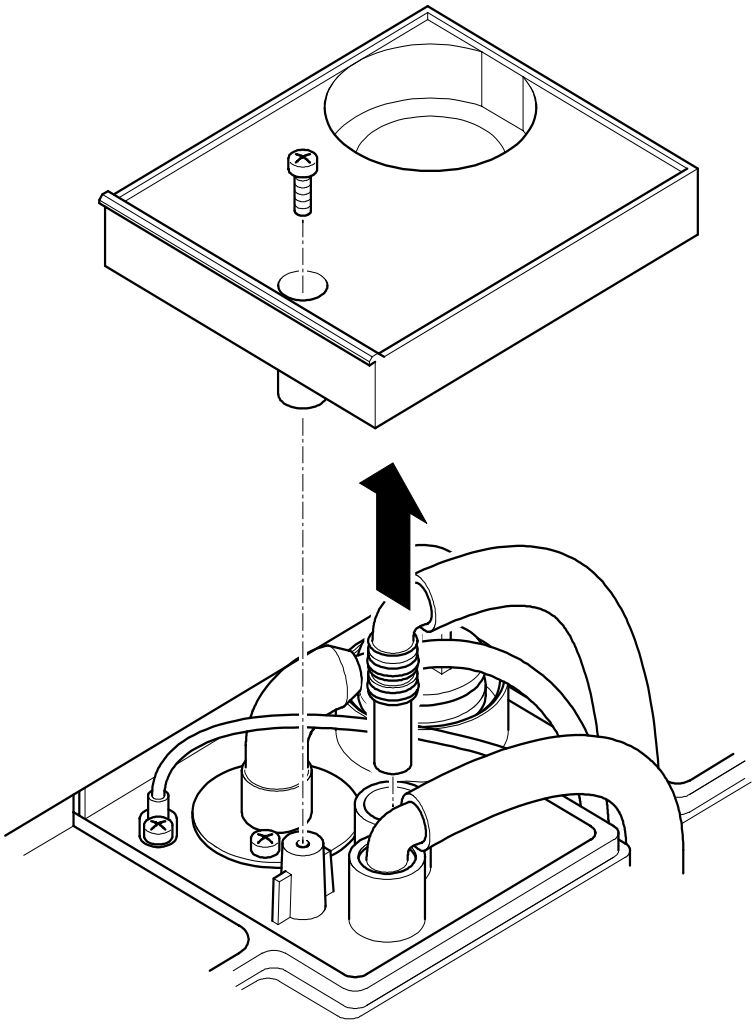
015

The **PP pumps settings** screen opens.

Calibrating the pumps

Note
The following steps must be carried out for all three pumps (DEV-W, BX-W, STB-W) one after the other!

Special tools
– Graduated beaker
– Extension hose

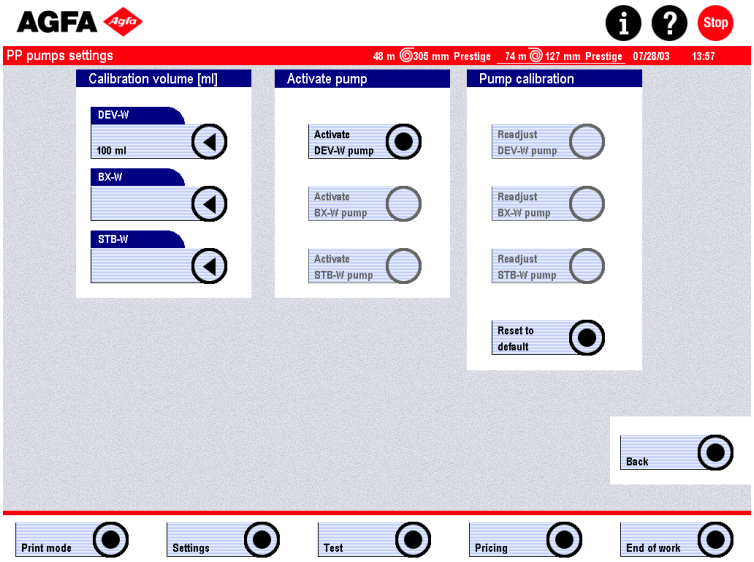


G_PP101

- Press **DEV-W** [**BX-W** / **STB-W**] and enter the calibration volume (water supply rate, e.g. 100 ml).
- Open the cover of the tank section; make sure that the cover engages in vertical position.
- Remove the cover in front of the machine tank DEV [BX / STB] (1 screw).

Note
There are two hoses below each cover, one for chemicals and one for water. The water hose is always the transparent hose, the hoses for the chemicals are colored (blue, red, or yellow).

- Pull out the water hose (incl. elbow).



015

- The hose is very short. Therefore increase the length with a piece of hose of matching diameter.
- Hold the end of the hose in a graduated beaker.
- Press
  Activate DEV-W pump
  [**Activate BX-W pump** /
  Activate STB-W pump].

  The buttons are only active if a supply rate has been entered for this pump.
  The pump switches on and pumps the set amount of water into the measuring cylinder more or less accurately, always depending on the quality of the present calibration.
  Then the pump switches off again.

- Check the supplied amount of water on the scale of the measuring cylinder.
- Press the respective button
  Readjust DEV-W pump
  [**Readjust BX-W pump** /
  Readjust STB-W pump] and enter the measured supply rate.

  The calibration of the pump is executed.
- Empty the graduated beaker.

- Repeat the calibration for the selected pump to check if the calibration is correct:
  - Hold the end of the hose in a graduated beaker.
  - Press **Activate DEV-W pump** [**Activate BX-W pump** / **Activate STB-W pump**].
  - Check the supplied amount of water on the scale of the graduated beaker.
  - Press the respective button **Readjust DEV-W pump** [**Readjust BX-W pump** / **Readjust STB-W pump**] and enter the measured supply rate.
  - Empty the graduated beaker.

Repeat the procedure if the calibration is not correct. If it is correct proceed as described below.

- Remove the extension hose and connect the water hose again.
- Proceed with the same routine for the other two pumps.
- Mount the tank covers again (1 screw each).
- Close the tank section cover:
  - Support the cover with one hand.
  - Press (PUSH) to unlock the cover.
  - Close the cover.

Resetting the calibration

In case of incorrect calibration the pumps can be reset to default:

- Press the button **Reset to standard**.

7.7 Brief Information for Operators during Warm-Up

While the machine is heating up, the operator can be informed of the fundamentals of the operation and maintenance, as well as of errors, which can be removed by the operator.

This brief information should only serve as refreshment of a previous operating training and cannot replace proper training!

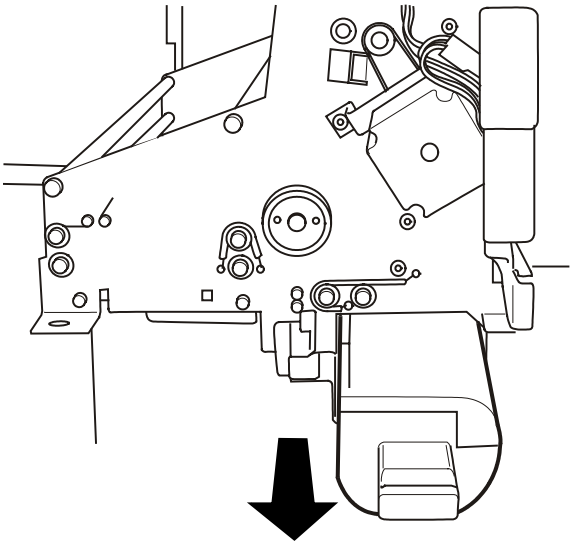
7.8 Checking the Process

The quality of the chemical solutions is checked by means of the chemical control strip test. For this test the preexposed chemical control strip is inserted in the machine, processed, and then analyzed. The evaluation of the chemical control strips shows if the chemicals are OK or not. If they are not OK, they must be replaced.

Order number of the digital chemical control strips(5x5): (ABC code) 5HWGX

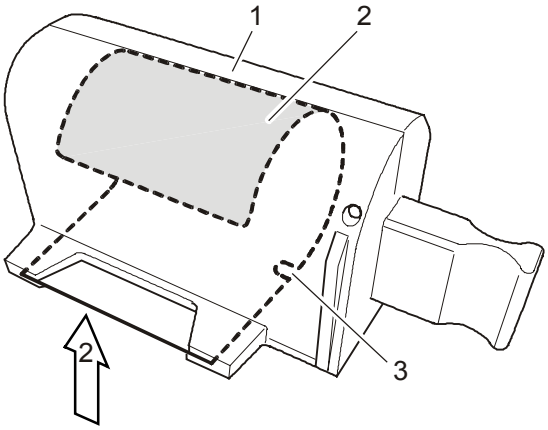
The following requirements must be met:

- the machine must be ready for operation (working temperature reached),
- and there is no order in process.



G_SD701

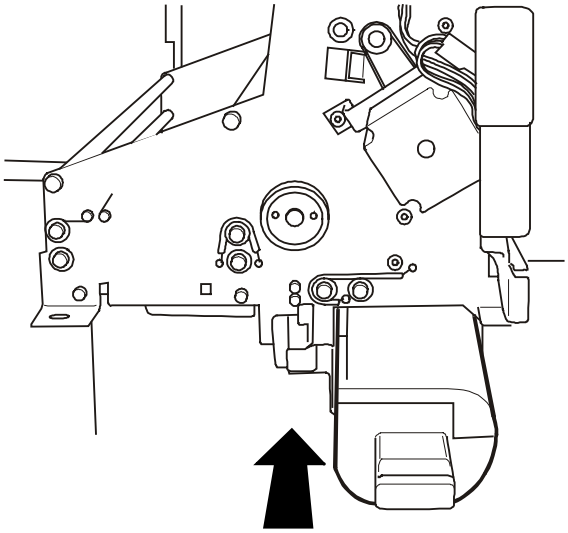
- Open the Printer front door:
  The control strip box is located in the lower part of the Lane Distributor, LD (d-lab.2) resp. Sheet Distributor, SD (d-lab.2plus, netlab.2plus).
- Open the lock of the control strip box and remove the box.



dlab2608

1 Control strip box
2 Emulsion side / photographic layer
3 Notch

- In a darkroom insert the control strip into the control strip box, with the notch on the bottom right hand side (smooth side – emulsion side – facing down; see ⇨ illustration).
  If the test strip was accidentally inserted the wrong way round, the developed strip shows obvious dirt marks (emulsion side up) or the preexposed measuring fields were fogged and cannot be analyzed.



dlab2195

- Press in this order:
  Test
  Control strip
  Chemical control strip
  Then a prompt pops up to insert the chemical control strip.
- Insert the control strip box in the provided holder in the Lane Distributor, LD (d-lab.2) resp. Sheet Distributor, SD (d-lab.2plus, netlab.2plus).
- Close the Printer front door and press **Continue**:
  The control strip is transported into the Paper Processor and processed there.
  A message indicates when the box should be removed.
- Remove the box or leave it in the machine until the next test.
- Remove the developed chemical control strip and analyze it.

A first evaluation is possible by comparing the developed control strip with the reference strip enclosed in the box (place both strips side by side and compare them in daylight conditions). Use a densitometer for a more detailed evaluation.

If the densities in the measuring fields correspond to the nominal values the production can be started. If not, the chemicals must be replaced (see ⇨ *Chapter 3*).

8 Preparing the Machine for Production

Before you are able to start production, various settings must be entered and tests must be made.

8.1 Entering the Settings

Many settings have standard values which are preset prior to delivery. These standard values usually allow at least a test operation of the machine. For the normal machine operation they must then be adapted to the requirements of the laboratory or the operator(s).

All settings are explained in detail in the *Operation Manual – Operation*.

However, to avoid problems we recommend to proceed as follows even before a test operation:

- Check the paper settings and change if necessary (see ⇨ Operation Manual – Operation, Chapter 4: *Defining paper width, surfaces and cut lengths*).
- Adjust the paper magazine(s) to the paper width(s) in use and set the code according to the settings on the machine (if this has not been done before putting the machine in operation; see ⇨ Operation Manual – Operation, Chapter 6: *Changing the paper magazine and loading paper*)
- Create sub-configurations (paper, back print, correction, indexprint, etc.) and combine them to form order configurations (see ⇨ Operation Manual – Operation, Chapter 4: *Creating and editing print configurations* and *Defining and editing order configurations*).

8.2 Calibrating the Machine and Running Tests

The machine must be calibrated to produce optimum print results. The calibration excludes color casts, incorrect exposure and/or blooming effects.

- Setting the master paper (master paper: the most commonly used paper; see ⇨ Operation Manual – Operation, Chapter 4: *Machine settings / Further settings*).
- Print a PBL with laser point on MBL paper.
- Print an MBL

Exact procedure (see ⇨ *Operation Manual – Operation Chapter 5*).

- Print a test print:
  Press in this order:
  Service
  Scripts
  Scripts for Service
  Test prints
  x-print.txt
  Enter the serial number (FN) of the machine in the pop-up window. Print to ensure that the machine works. If there are any problems with the paper transport (paper running askew, paper jam) proceed as follows: Problem occurs only a few hours after installation / removal of transport protections: Repeat the paper transport approximately 24 hours after the transport protections have been removed.
- The problem occurs approx. 24 hours after the transport protections have been removed: Check the height adjustment of the print engine and adjust if necessary (see ⇨ *Repair Instructions*).

Reason:
The rubber suspension of the print machine only reaches the final position after this time (relieve of tension, temperature effects).

9 Installation report

- Fill in the installation report completely and fax it to the indicated address.
- Use the return envelope to send the test prints (1 PBL, 1 MBL, 1 test print) to AgfaPhoto-Gera.

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